

# **MAJOR WATER USE IN MISSOURI: 1996-2000**



**MISSOURI DEPARTMENT OF NATURAL RESOURCES**  
**Geological Survey and Resource Assessment Division**

# MAJOR WATER USE IN MISSOURI: 1996-2000

by  
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2003

*Integrity and excellence in all we do*



**MISSOURI DEPARTMENT OF NATURAL RESOURCES**  
**Geological Survey and Resource Assessment Division**

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**COVER:** *Flood irrigation of rice in Butler County near Qulin, Missouri. Photo by James E. Vandike.*

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# INTRODUCTION

This report is a compilation of Missouri major water use data reported to the Missouri Department of Natural Resources (the department) for calendar years 1996-2000. A law passed in 1983 by the Missouri General Assembly requires annual registration of Missouri's major water users, which are individually defined as a person, firm or corporation having a water source and a pump capable of producing 100,000 gallons of water or more per day.

These data do not represent all the major water users in Missouri, nor do they depict total water use in Missouri. Compliance with the law is basically voluntary; therefore, use registration is incomplete. The department strives to increase compliance through consistent data collection, publication of data, public education, cross referencing existing departmental data bases and systematically checking each city and town to see where it gets its water. Effective management and planning of Missouri's water resources depend on collection of water-use data.

## EXPLANATION OF DATA

Collection of this data is authorized under chapter 256.400 to 256.430 RSMo (see Appendix on page 80 for complete law). A major water user can be a person, firm, corporation or the State of Missouri, its agencies or corporations and any other political subdivision of this state, their agencies or corporations, with a water source and equipment necessary to withdraw or divert 100,000 gallons or more per day from any stream, river, lake, well, spring or other water source. Each year major water users are sent a Water Use Inventory form and Source of Water form requesting the following information:

- \* User name and address
- \* Owner name and address
- \* Type of source: groundwater, surface water, or both
- \* Amount of water diverted
- \* Amount of water returned
- \* Maximum rate pumped
- \* Method of measurement
- \* Type of use: domestic, municipal, irrigation, recreation, industrial, electrical generation, fish and wildlife, and drainage and dewatering

For each well the following information is requested:

- \* Owner name
- \* Date drilled
- \* Depth to water
- \* Depth of well
- \* Depth to bottom of casing
- \* Pump capacity
- \* Water pumped annually

- \* Method of measurement
- \* Acres irrigated
- \* Status
- \* Certification well number
- \* Location of withdrawal (legal description)

For each surface water source the following information is requested:

- \* Name or type of water body
- \* Location of withdrawal (legal description)
- \* Water pumped annually
- \* Acres irrigated
- \* Pump capacity

It is important to note that these data do not represent total water use in the State of Missouri. The figures are only as accurate as the information obtained from major water users who register their use. Many cities and towns purchase their water from another water supplier and therefore do not report water use themselves, since the supplier reports the usage. As a result, this can give the appearance of gaps in the data where none actually exist.

Major water users needing registration forms can obtain them from our Internet web page (<http://www.dnr.mo.gov/geology/wrp/watuseforms.htm>), by calling Jeanette Barnett at (573) 368-2188, e-mailing her at: [jeanette.barnett@dnr.mo.gov](mailto:jeanette.barnett@dnr.mo.gov), or by writing her at: Missouri Department of Natural Resources, Geological Survey and Resource Assessment Division, Economics and Water Use Unit, PO Box 250, Rolla, MO 65402-0250.

## DEFINITIONS OF WATER USE CATEGORIES

Major water use data was collected for eight types of water use, which are defined below. There is some overlap between the categories of domestic and municipal use, since some cities classified part of their water use as domestic.

- \* Domestic use refers to water used for household purposes and subsistence, livestock watering, and irrigation of gardens and orchards not exceeding 2.5 acres in size. The water may come from a public supply or may be self-supplied.
- \* Municipal use is defined as providing water for public consumption to communities, subdivisions, rural water districts, trailer courts, etc.
- \* Irrigation is defined as water needed to supplement plant growth on land more than 2.5 acres in size. It is important to note that most irrigators estimate water use; very few use meters.
- \* Recreational use is defined as water used for purposes of swimming, boating, game fishing, etc.
- \* Industrial uses are any use of water for the purpose of producing a marketable product. Some examples are mining, manufacturing, and commercial poultry and livestock feedlot operations, etc. Included are uses for which water is injected into the ground, such as hydrocarbon displacement.
- \* Electrical generation uses of water include hydropower dams, free flow turbines, thermal or nuclear generation, pumped storage operations, pollution abatement, or other associated needs for producing electric energy.
- \* Fish and wildlife water use refers to water used for the maintenance of fish and wildlife habitats, and includes private or public fish hatcheries.
- \* Drainage and dewatering refer to operations necessary to evacuate water from mines or depressions, channelization of streams and drainage of wetlands. Effluent discharge is also included in this category.

## DISCUSSION OF DATA

A total of approximately 6.4 trillion gallons (or 6,378,544,000,000 gallons) was registered with the Missouri Department of Natural Resources in the year 2000 by 1,974 major water users. Of this amount, approximately 6.1 trillion gallons (6,105,737,500,000 gallons) came from surface water sources and approximately 300 billion gallons (272,806,660,000 gallons) from groundwater.

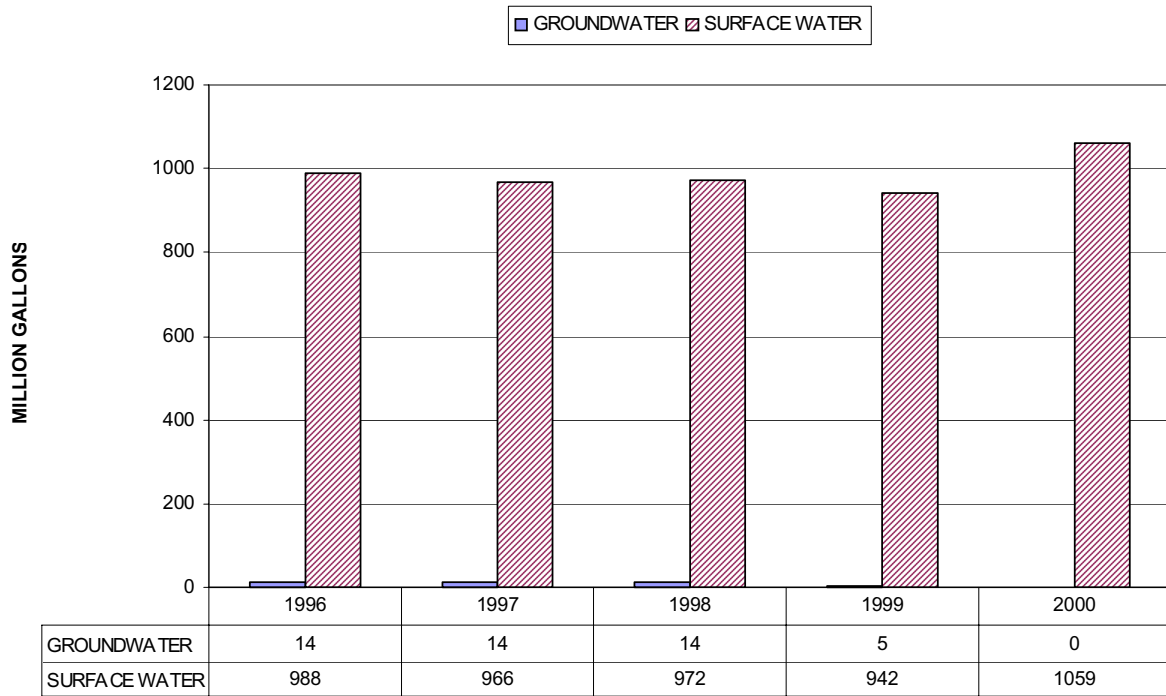
For additional information on groundwater and surface water use, refer to the graphs on pages 3 to 59 which compare groundwater use to surface water use by county for calendar years 1996 - 2000.

Electrical generation is by far the largest category of water use. Municipal use and irrigation rank second and third respectively. However, electrical generation consumes very little water, since most is used for cooling and then returned to the water source.

Surface water sources supply the majority of water used to produce electricity. In counties with hydropower plants (such as Miller County in which Bagnell Dam at Lake of the Ozarks is located) the amount of surface water needed to produce electricity is so immense in comparison to other uses, that the groundwater amounts are not visible when graphed (see graph on page 35).

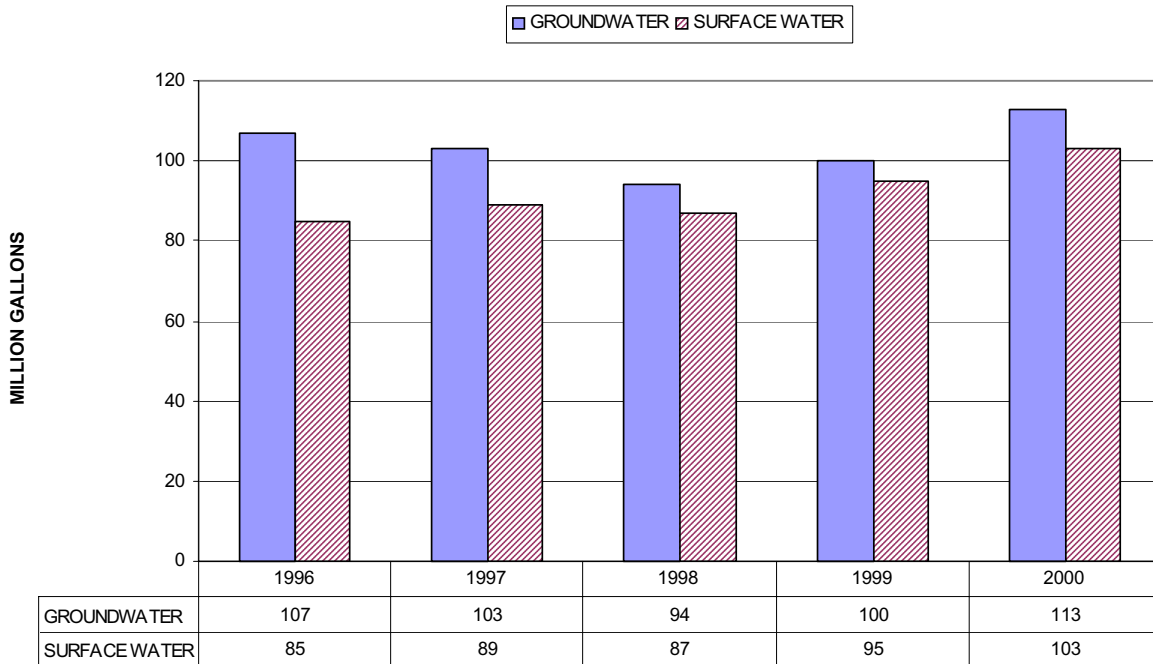
The tables on pages 60 to 79 show reported groundwater and surface water information by year, county, and water use category for calendar years 1996 - 2000. When water crosses county lines via water districts, the water use is reported for the county supplying the water, not the counties receiving the water.

ADAIR COUNTY REGISTERED MAJOR WATER USE: 1996-2000



Amounts shown are in million gallons per year.

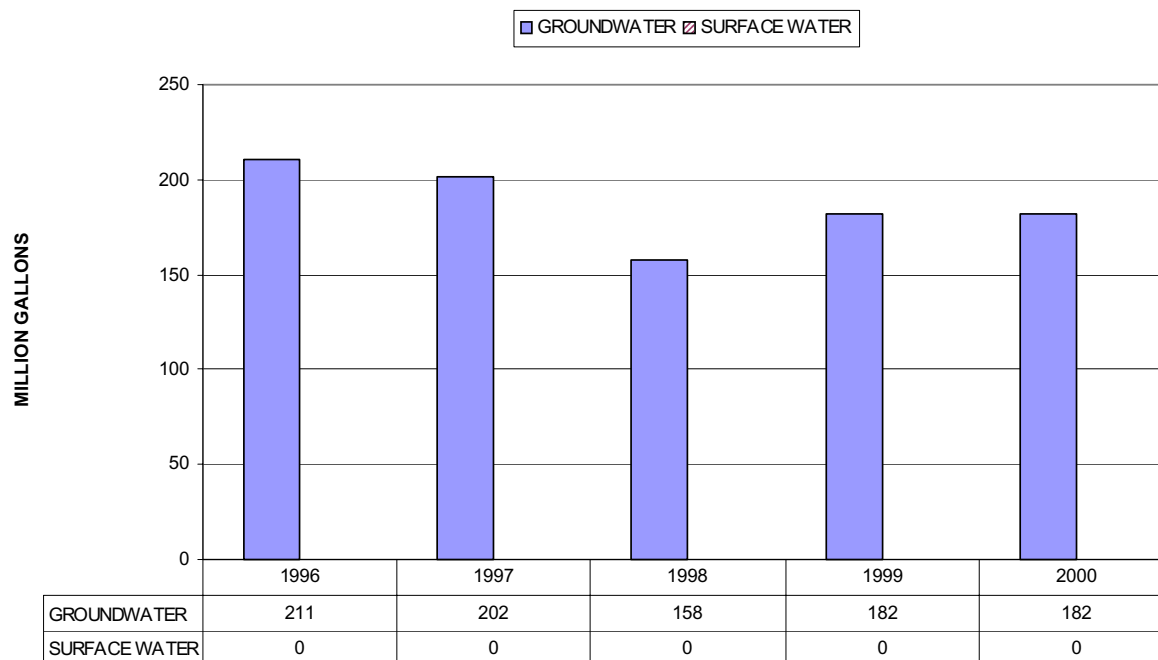
ANDREW COUNTY REGISTERED MAJOR WATER USE: 1996-2000



Amounts shown are in million gallons per year.

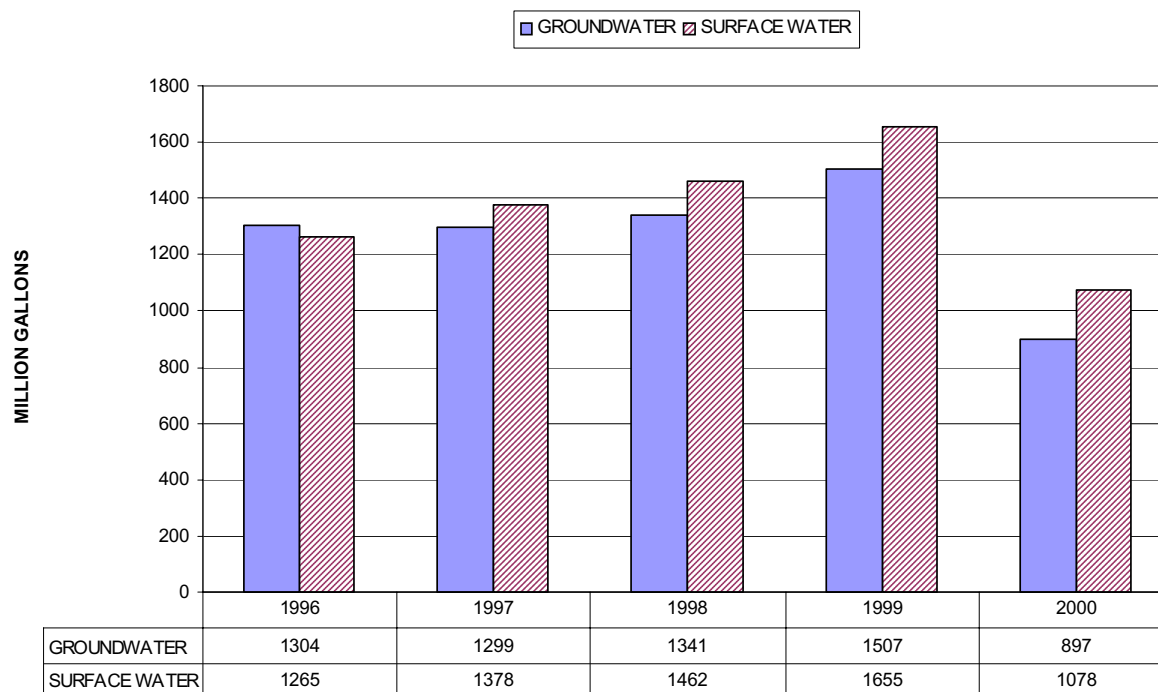


ATCHISON COUNTY REGISTERED MAJOR WATER USE: 1996-2000



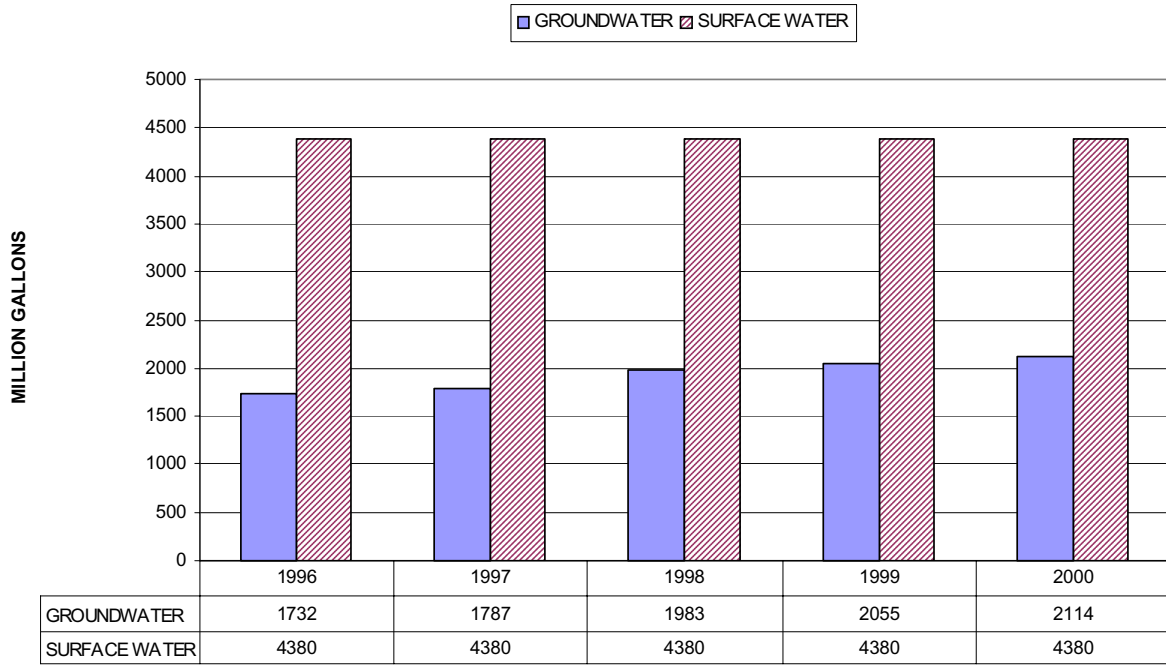
Amounts shown are in million gallons per year.

AUDRAIN COUNTY REGISTERED MAJOR WATER USE: 1996-2000



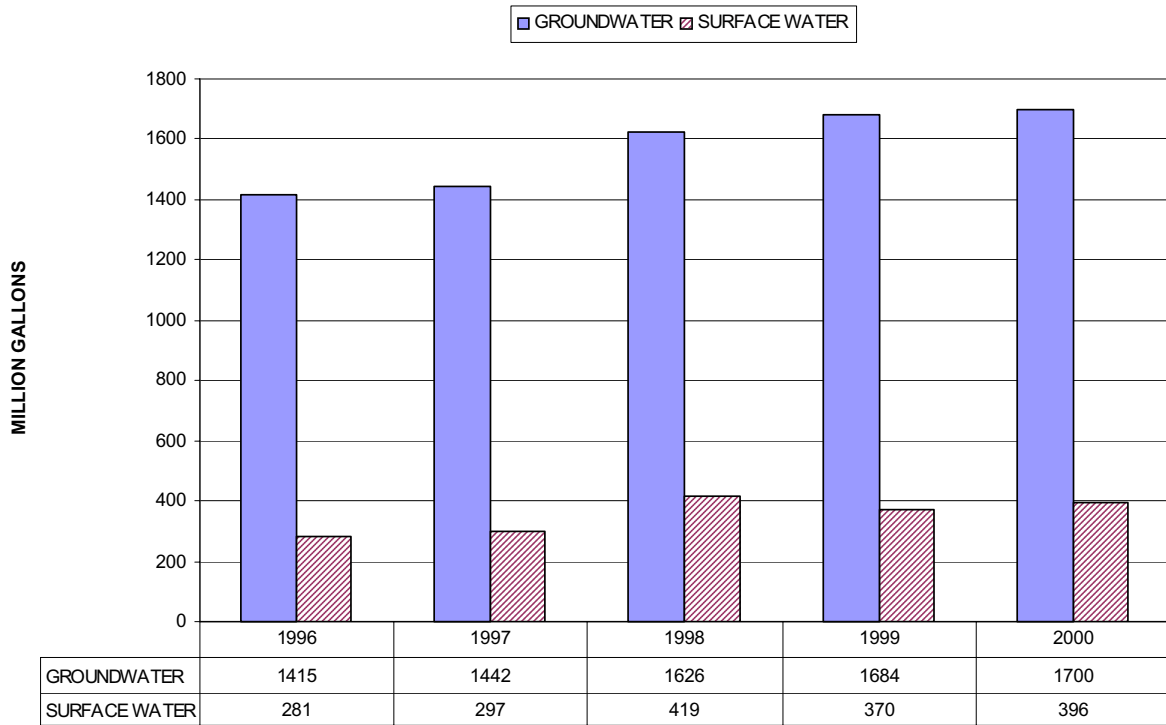
Amounts shown are in million gallons per year.

**BARRY COUNTY REGISTERED MAJOR WATER USE: 1996-2000**



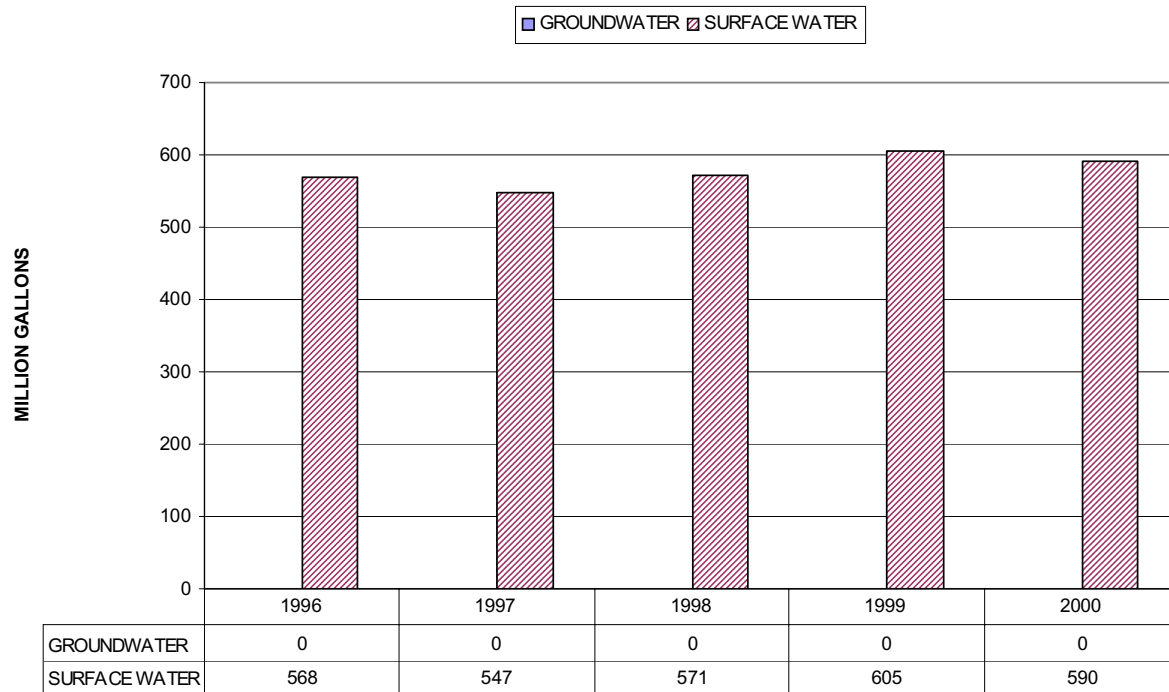
Amounts shown are in million gallons per year.

**BARTON COUNTY REGISTERED MAJOR WATER USE: 1996-2000**



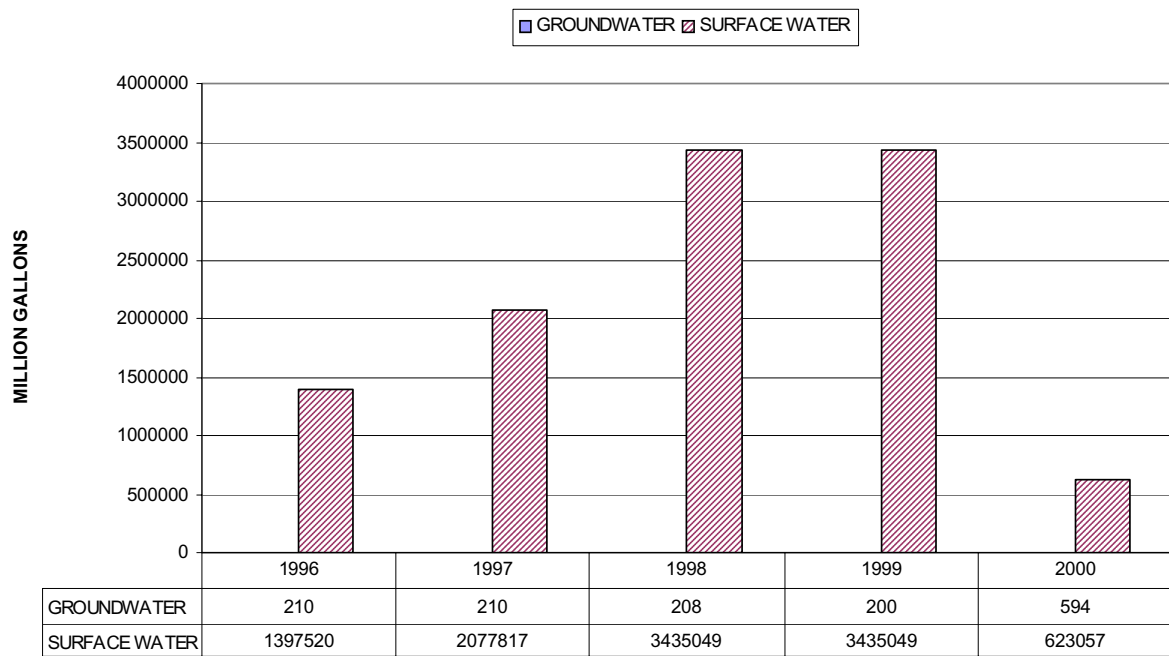
Amounts shown are in million gallons per year.

**BATES COUNTY REGISTERED MAJOR WATER USE: 1996-2000**



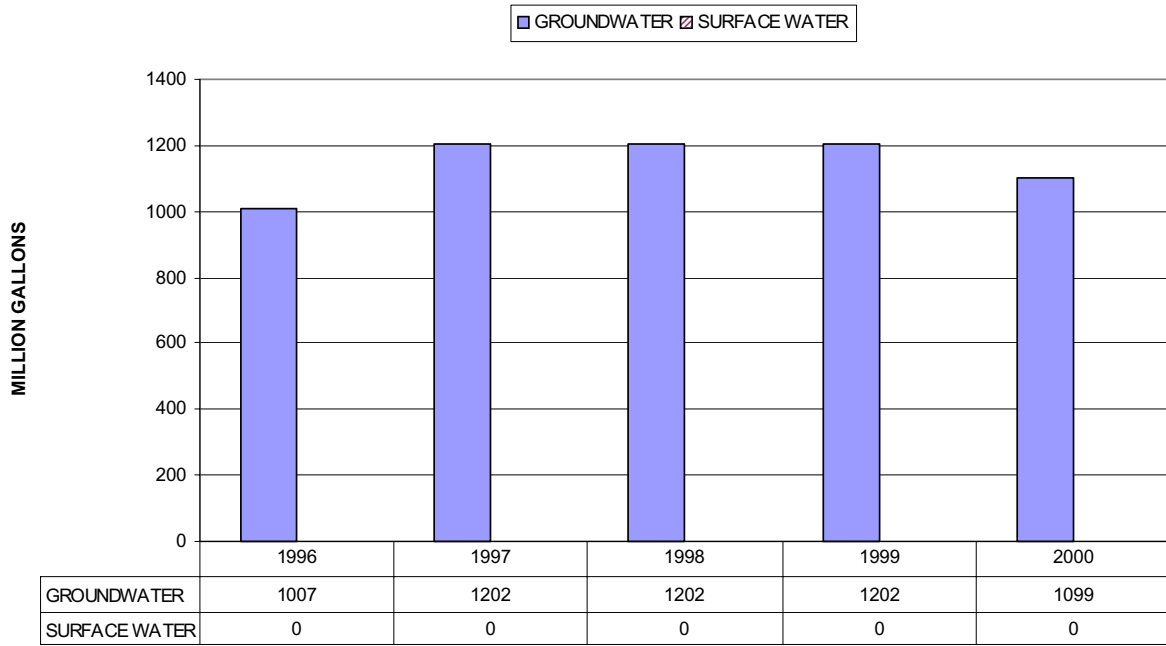
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**BENTON COUNTY REGISTERED MAJOR WATER USE: 1996-2000**



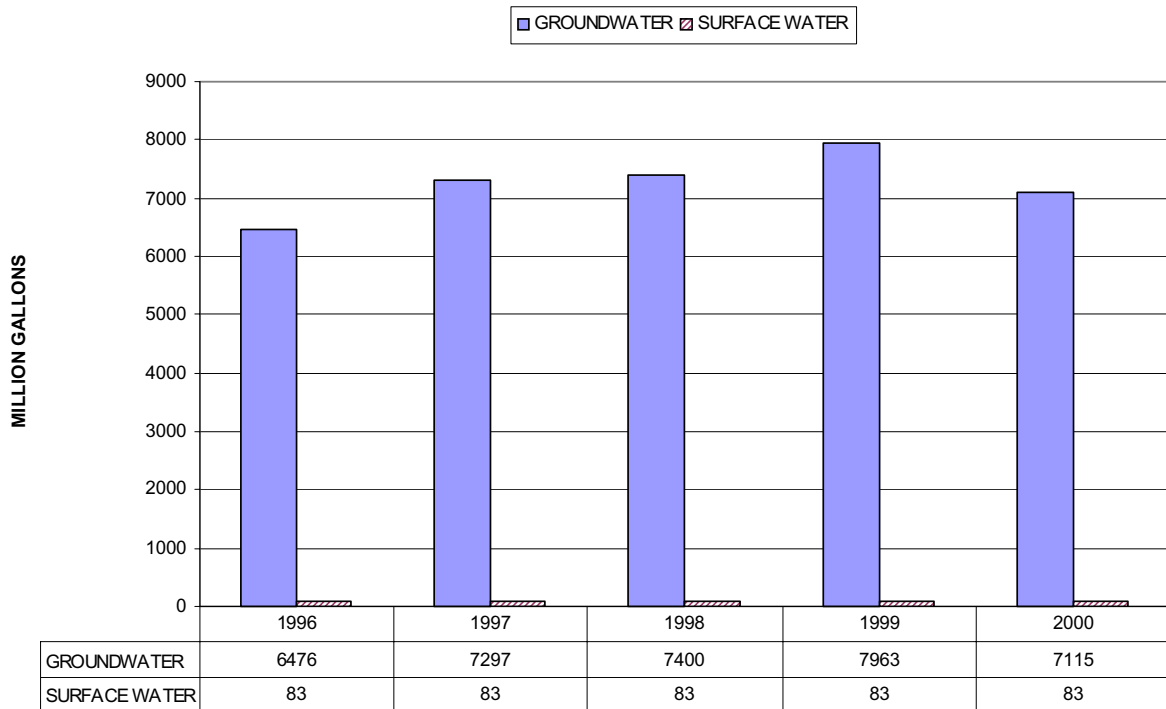
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**BOLLINGER COUNTY REGISTERED MAJOR WATER USE: 1996-2000**



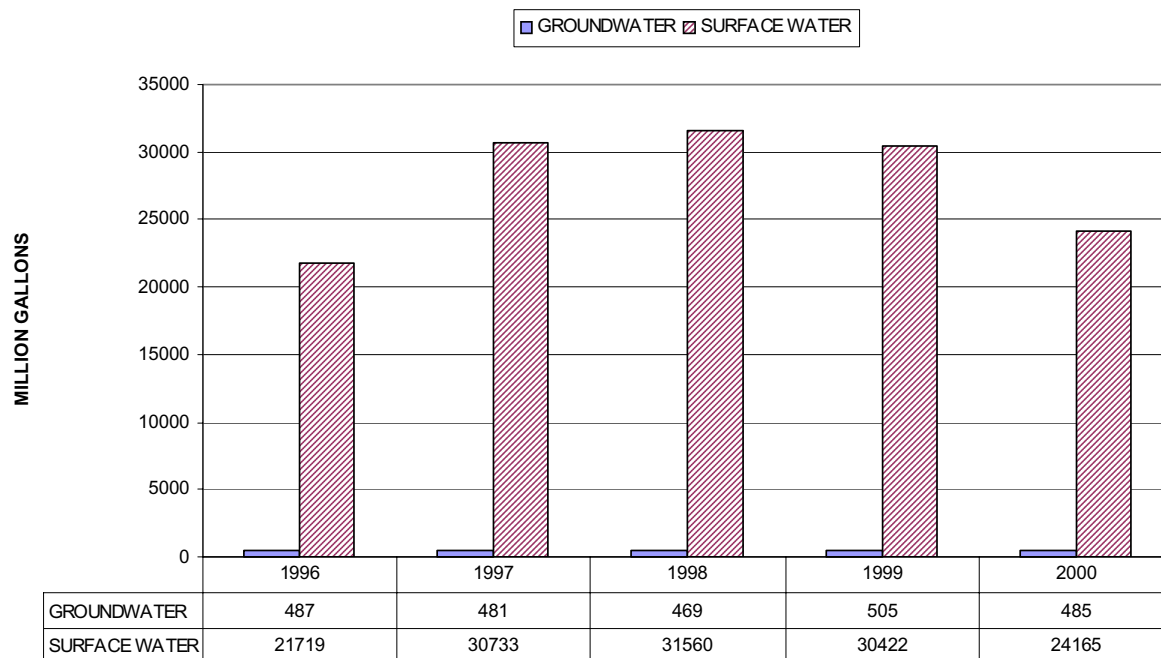
Amounts shown are in million gallons per year.

**BOONE COUNTY REGISTERED MAJOR WATER USE: 1996-2000**



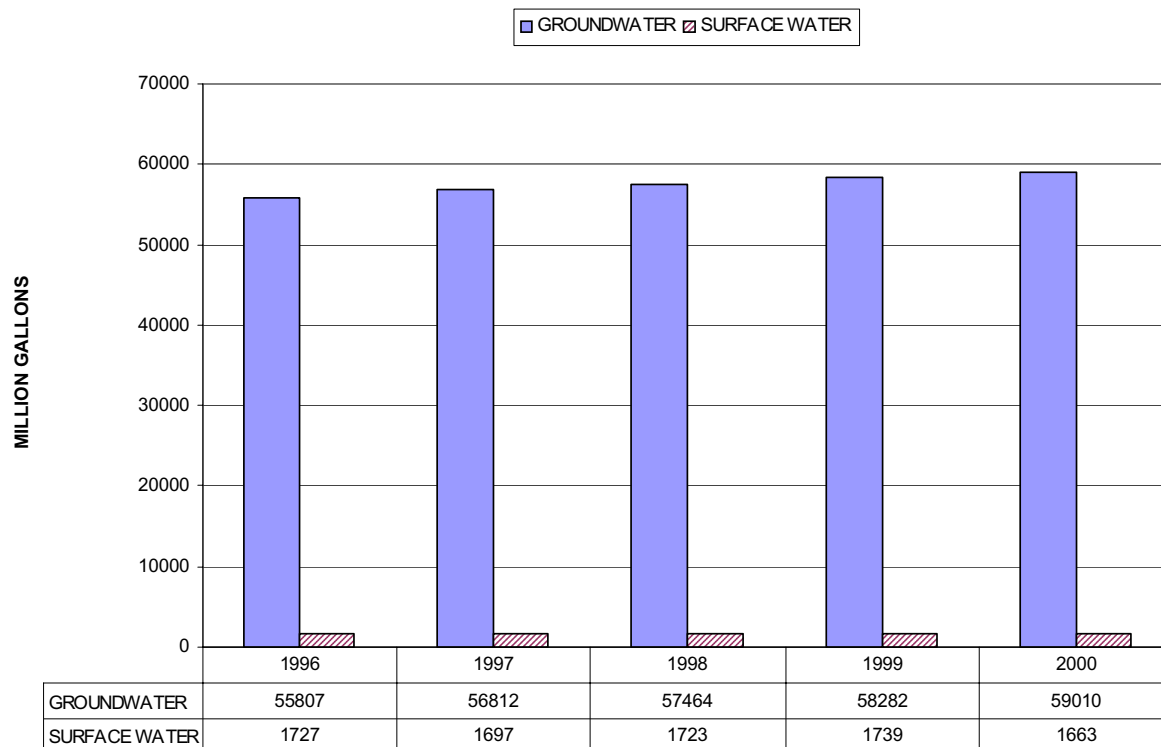
Amounts shown are in million gallons per year.

BUCHANAN COUNTY REGISTERED MAJOR WATER USE: 1996-2000



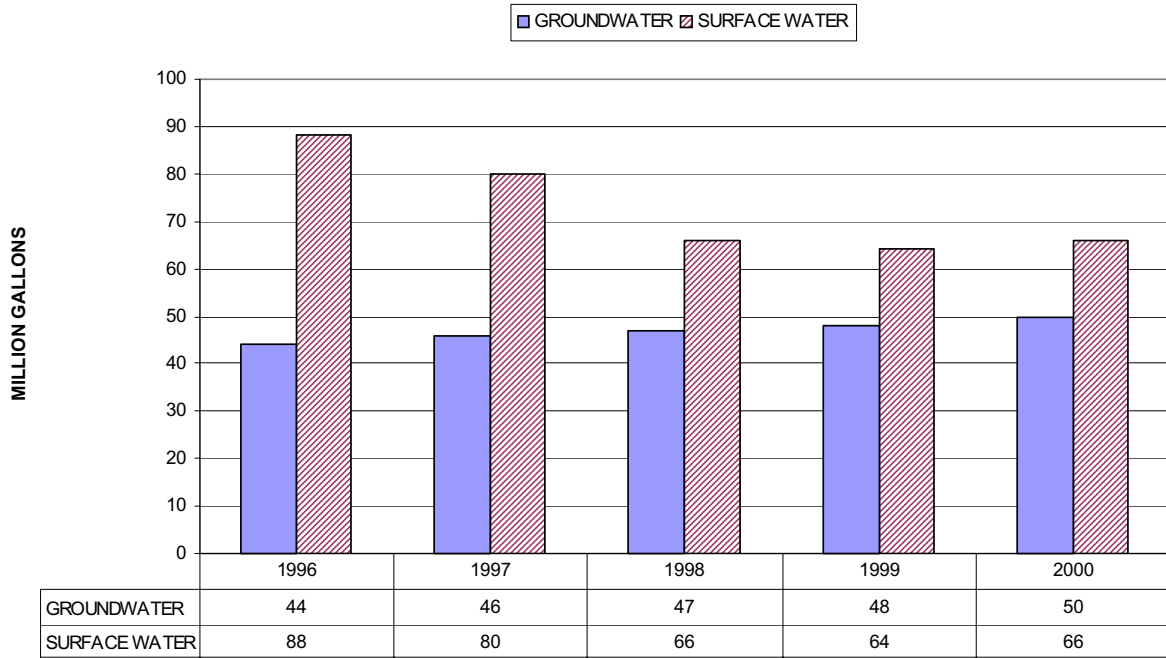
Amounts shown are in million gallons per year.

BUTLER COUNTY REGISTERED MAJOR WATER USE: 1996-2000



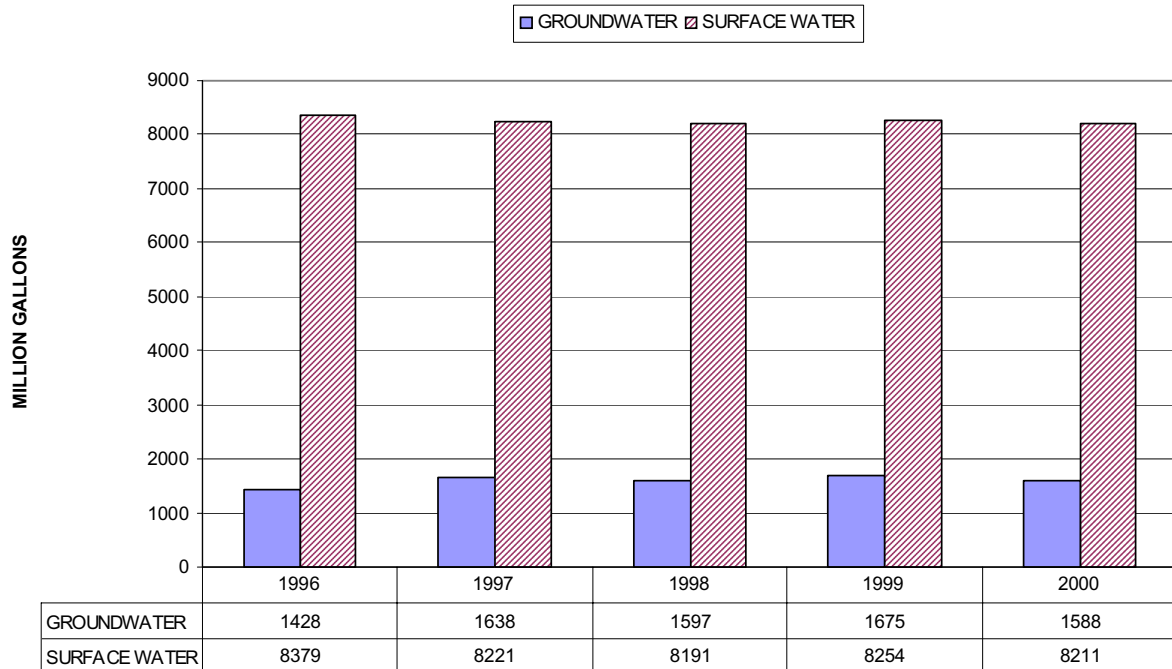
Amounts shown are in million gallons per year.

CALDWELL COUNTY REGISTERED MAJOR WATER USE: 1996-2000

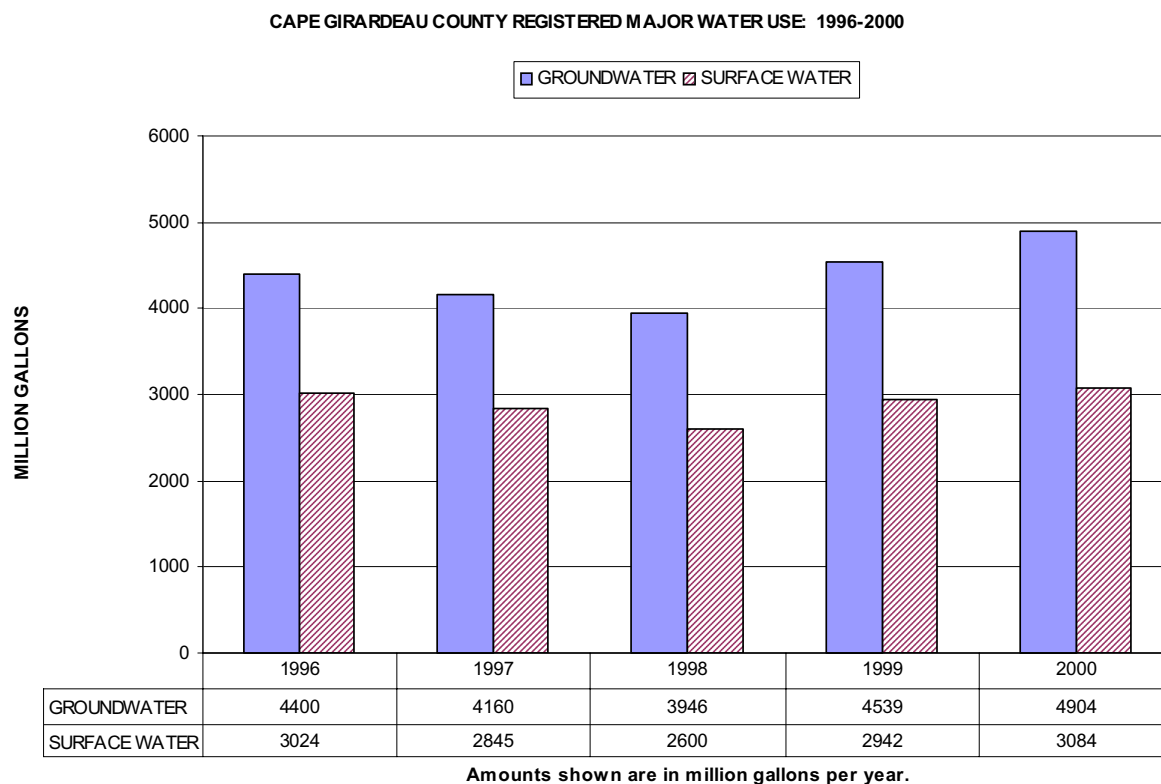
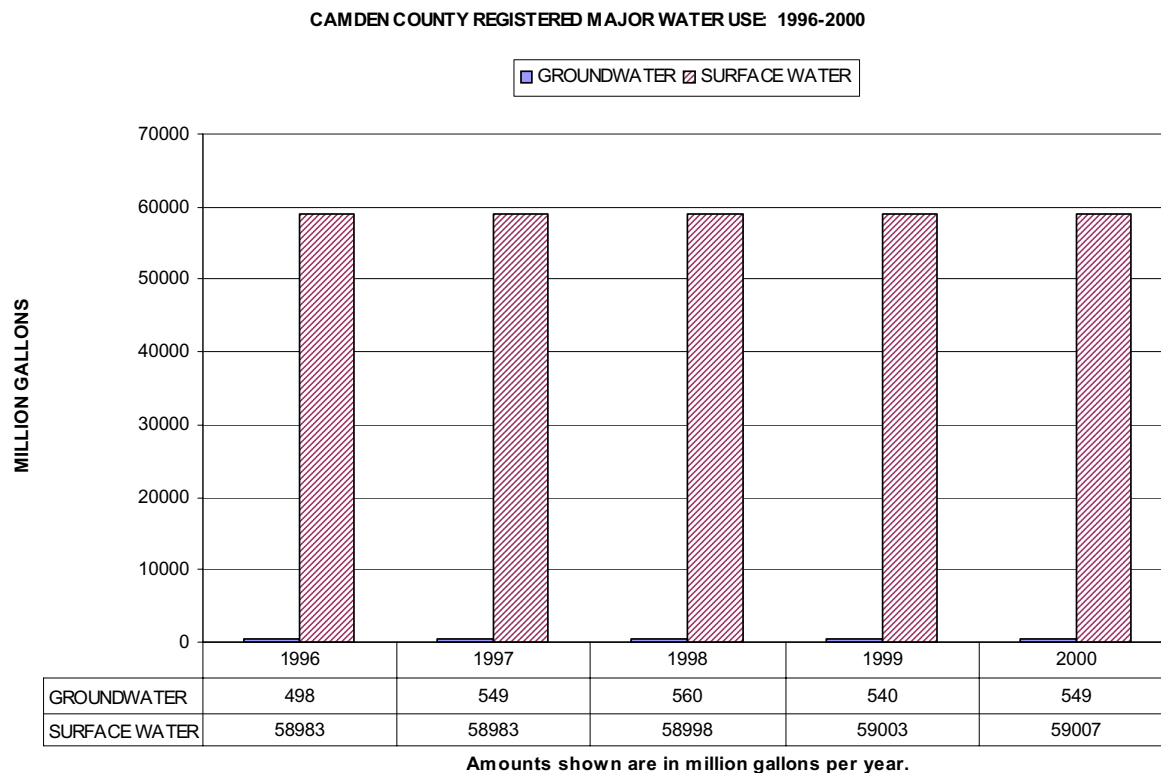


Amounts shown are in million gallons per year.

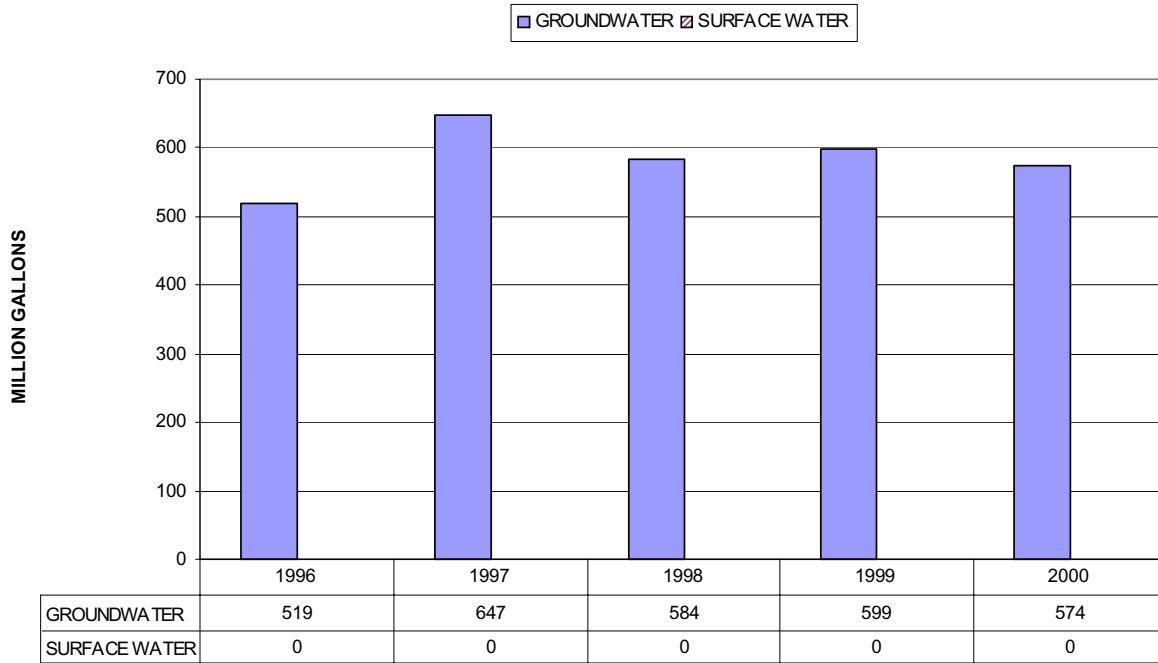
CALLAWAY COUNTY REGISTERED MAJOR WATER USE: 1996-2000



Amounts shown are in million gallons per year.

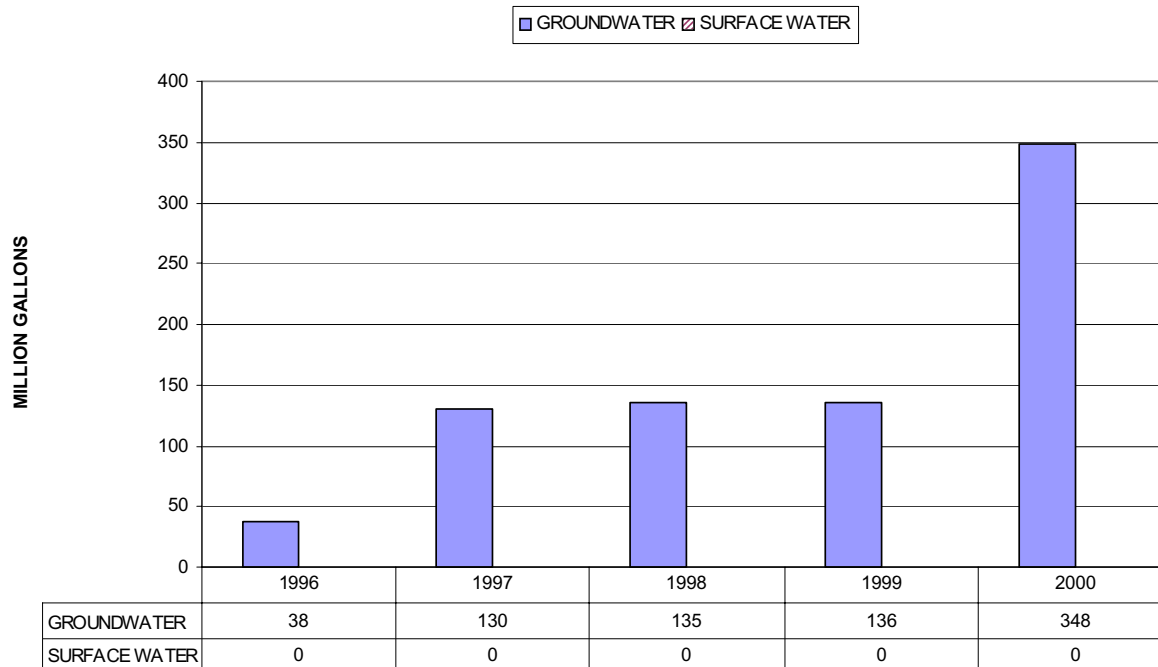


CARROLL COUNTY REGISTERED MAJOR WATER USE: 1996-2000



Amounts shown are in million gallons per year.

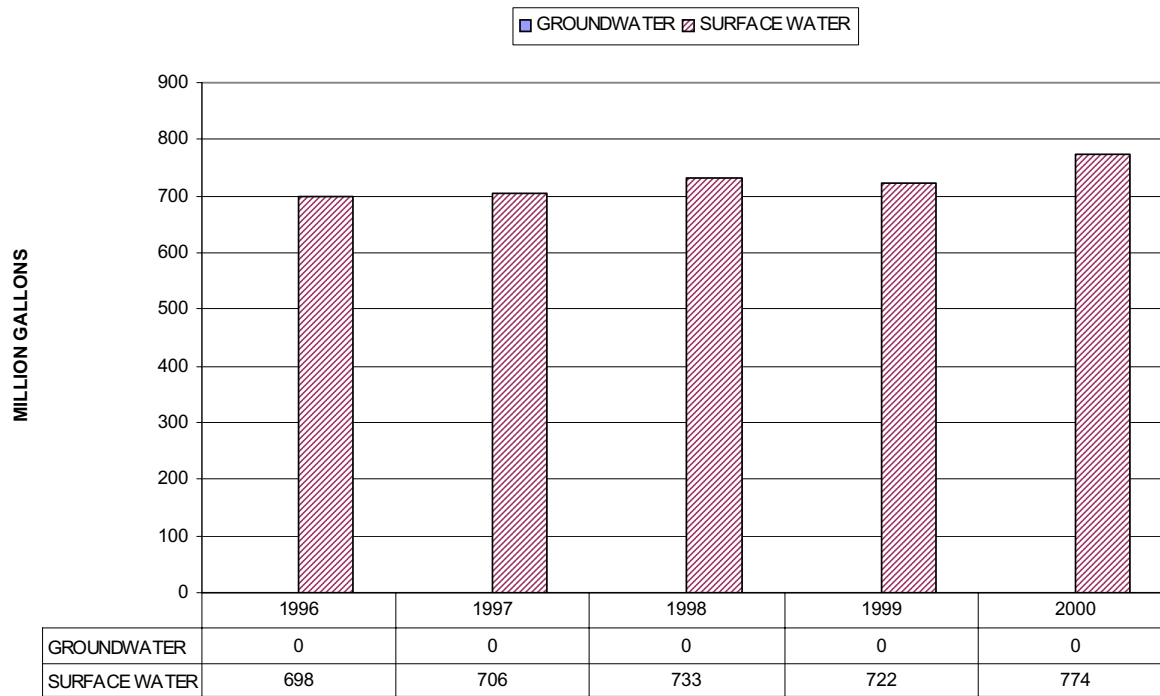
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Amounts shown are in million gallons per year.

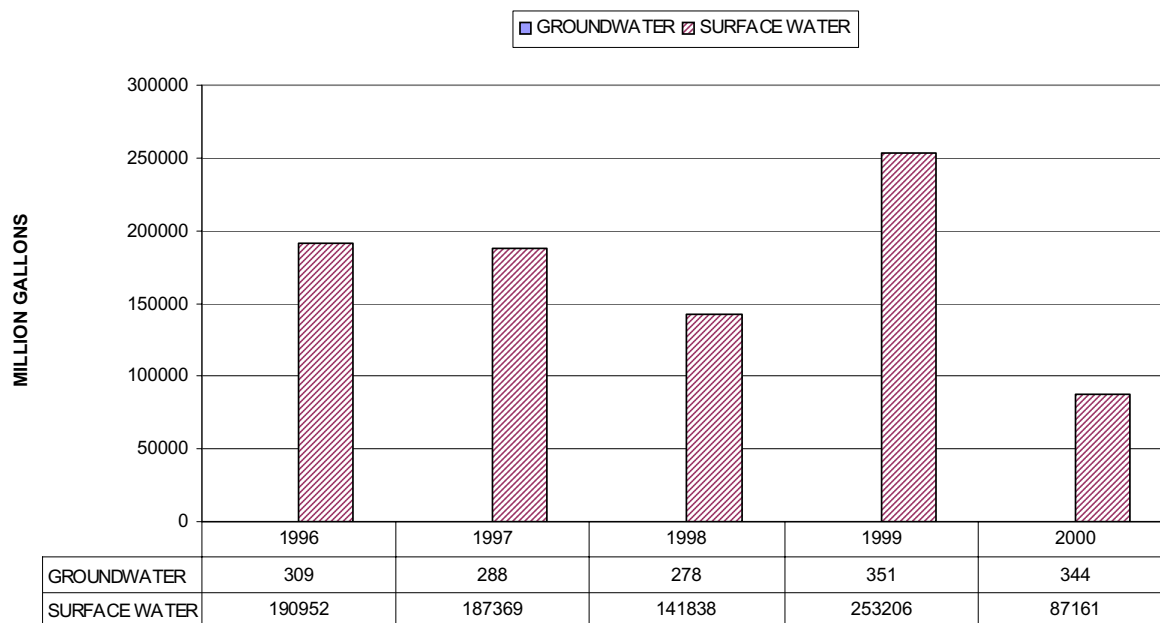


CASS COUNTY REGISTERED MAJOR WATER USE: 1996-2000



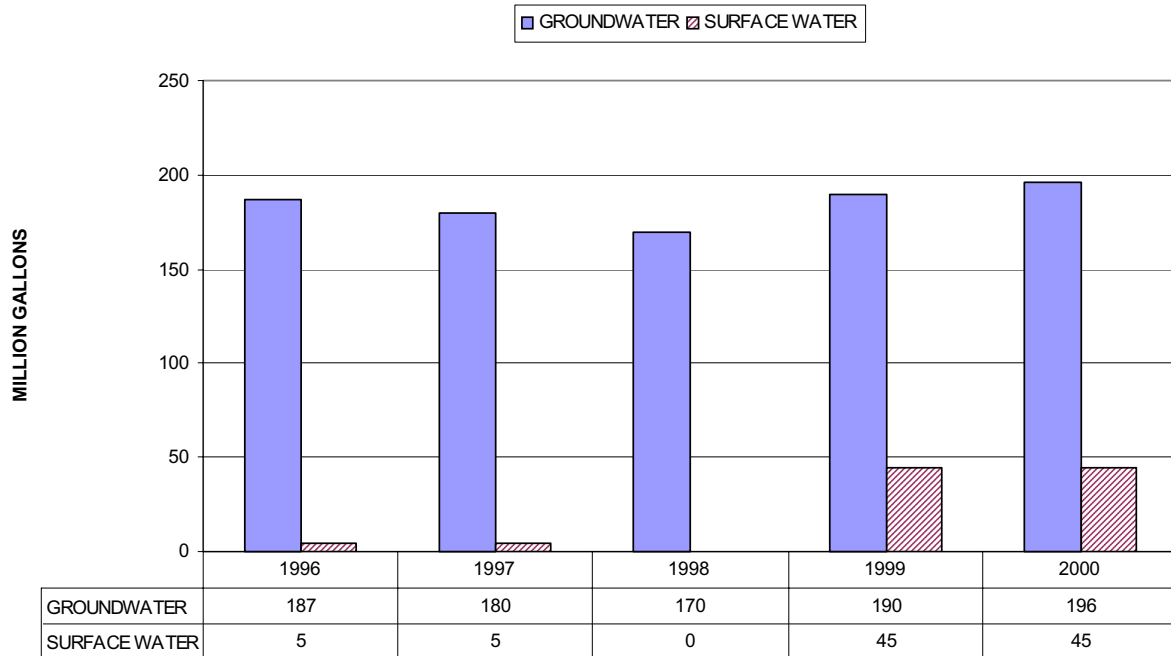
Amounts shown are in million gallons per year.

CEDAR COUNTY REGISTERED MAJOR WATER USE: 1996-2000



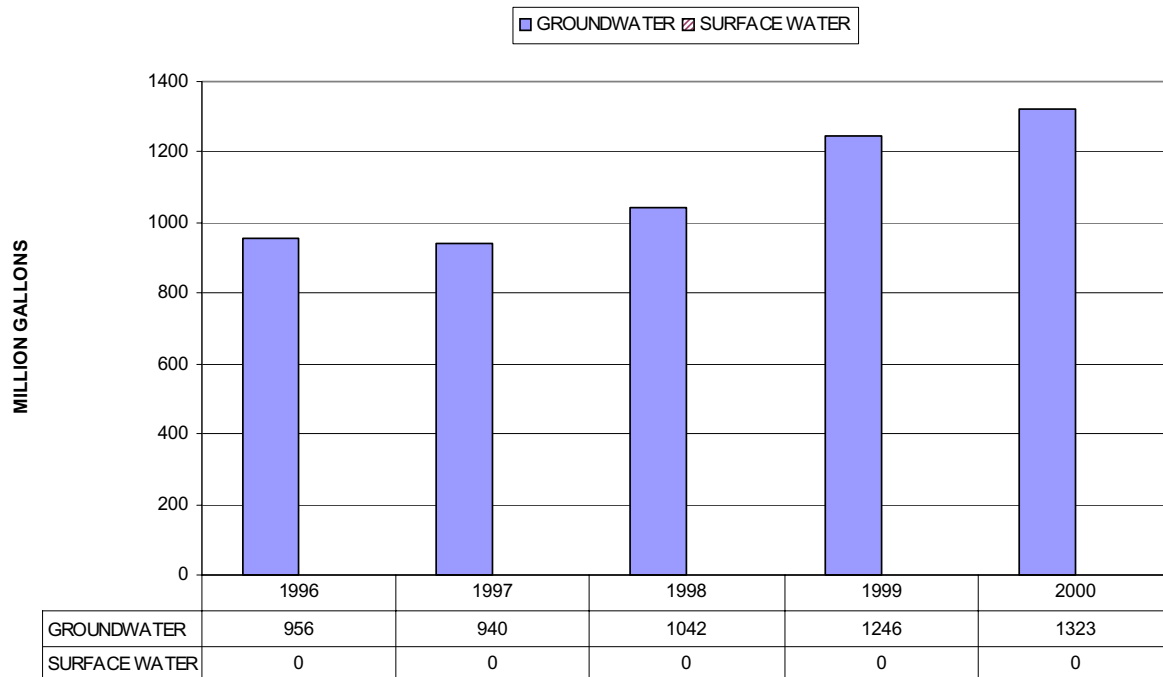
Amounts shown are in million gallons per year. Groundwater amounts are too small to be visible on graph.

CHARITON COUNTY REGISTERED MAJOR WATER USE: 1996-2000



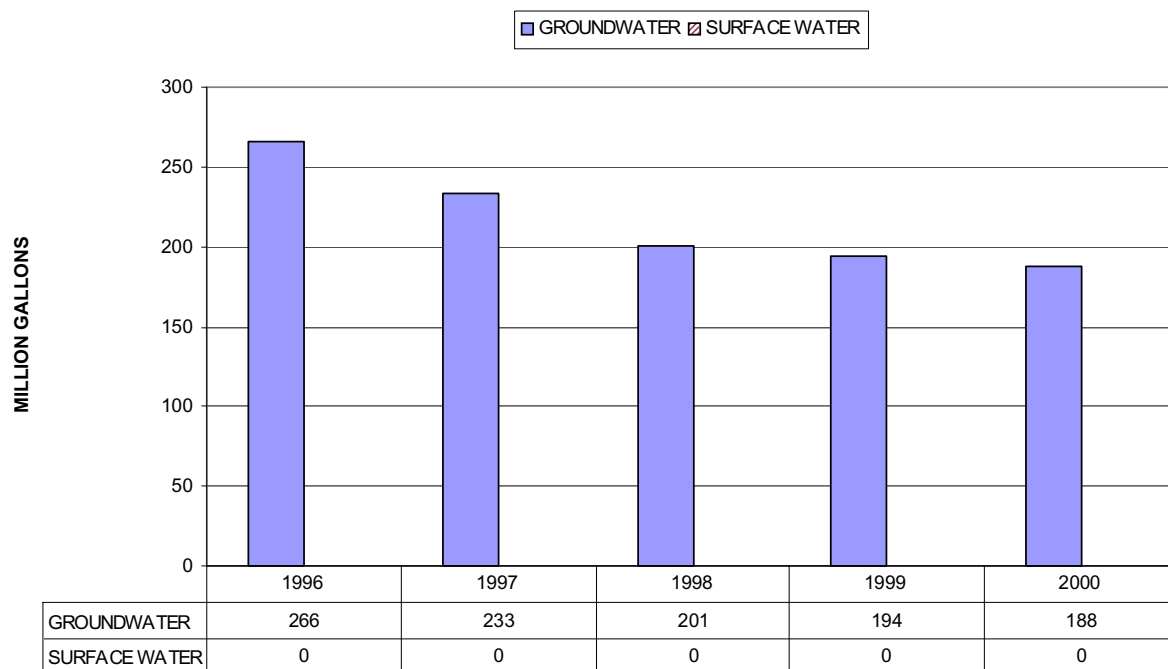
Amounts shown are in million gallons per year.

CHRISTIAN COUNTY REGISTERED MAJOR WATER USE: 1996-2000



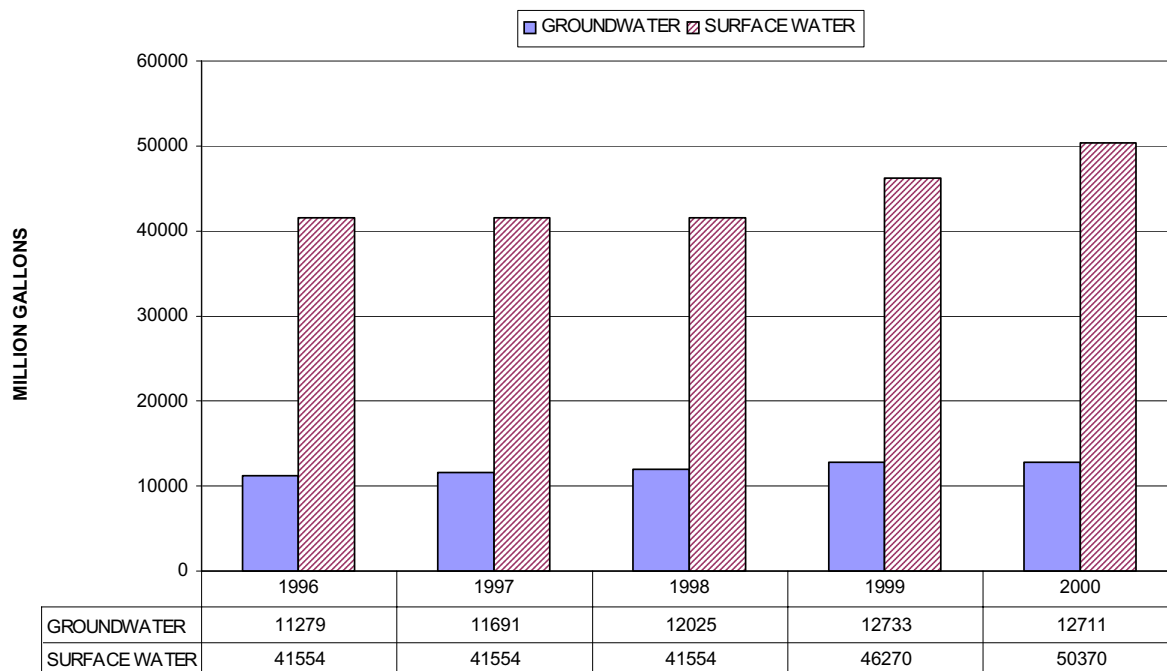
Amounts shown are in million gallons per year.

CLARK COUNTY REGISTERED MAJOR WATER USE: 1996-2000



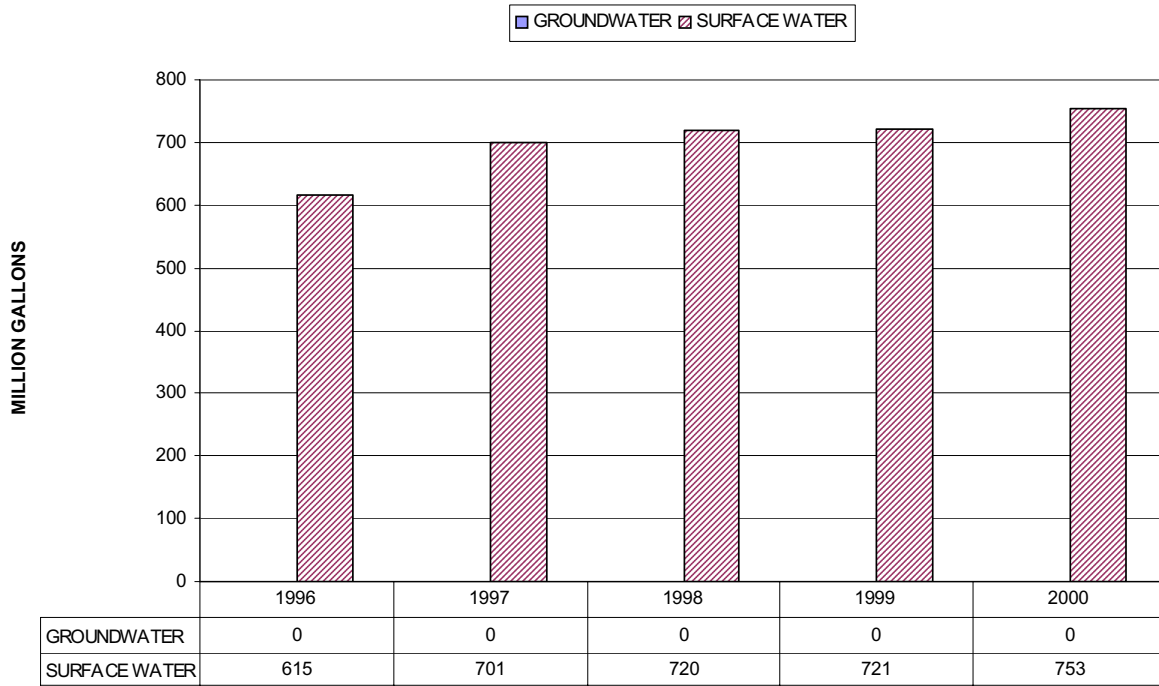
Amounts shown are in million gallons per year.

CLAY COUNTY REGISTERED MAJOR WATER USE: 1996-2000



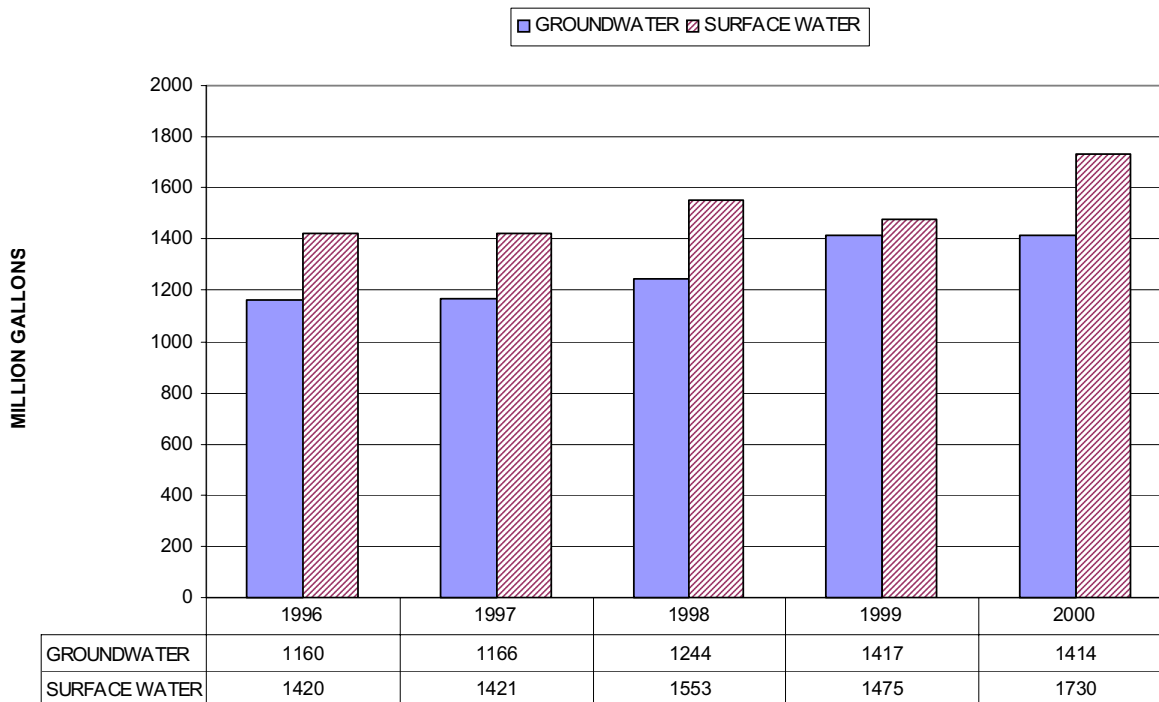
Amounts shown are in million gallons per year.

CLINTON COUNTY REGISTERED MAJOR WATER USE: 1996-2000



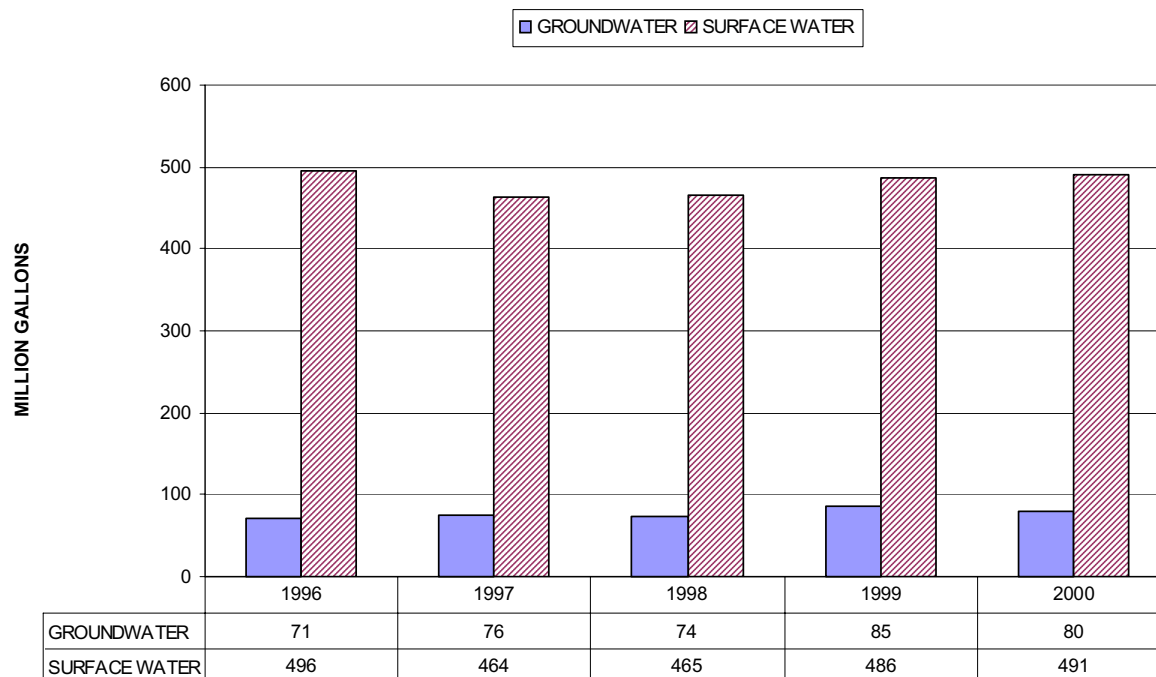
Amounts shown are in million gallons per year.

COLE COUNTY REGISTERED MAJOR WATER USE: 1996-2000



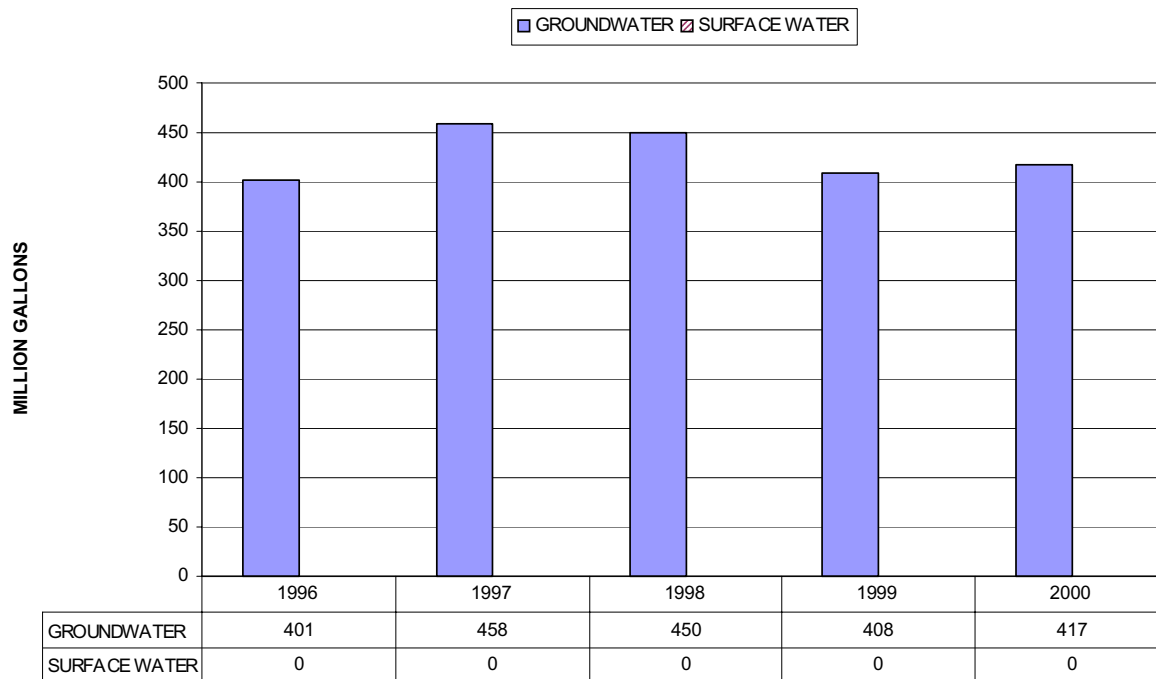
Amounts shown are in million gallons per year.

COOPER COUNTY REGISTERED MAJOR WATER USE: 1996-2000



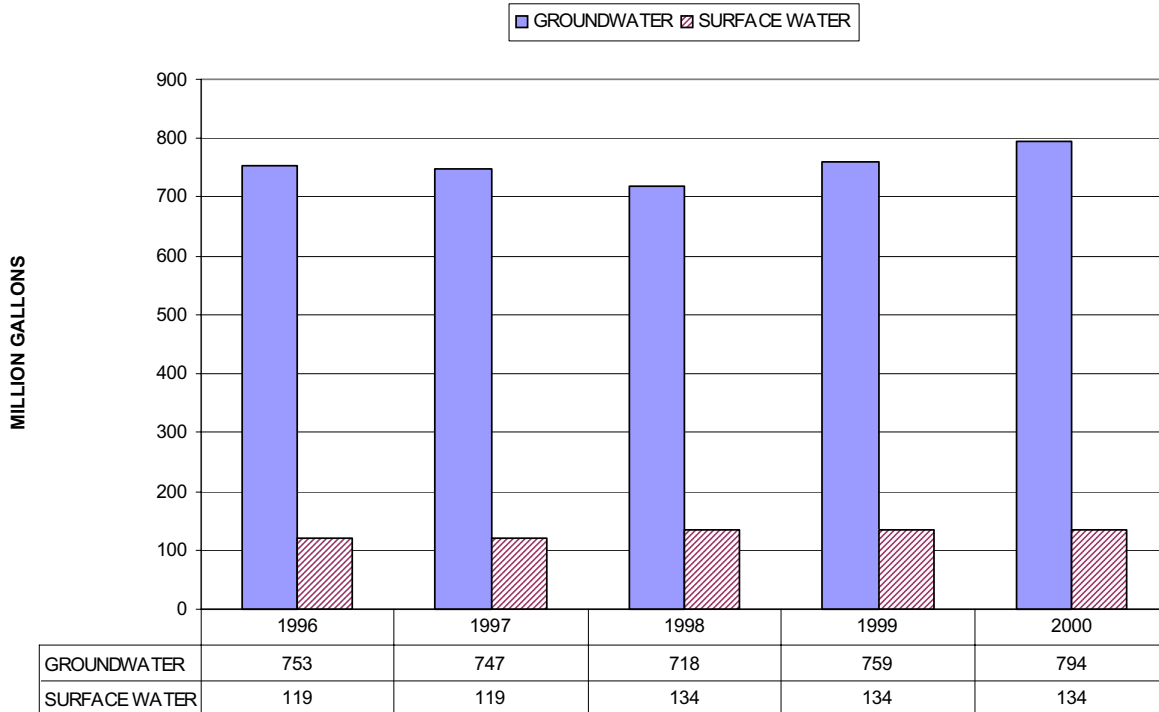
Amounts shown are in million gallons per year.

CRAWFORD COUNTY REGISTERED MAJOR WATER USE: 1996-2000



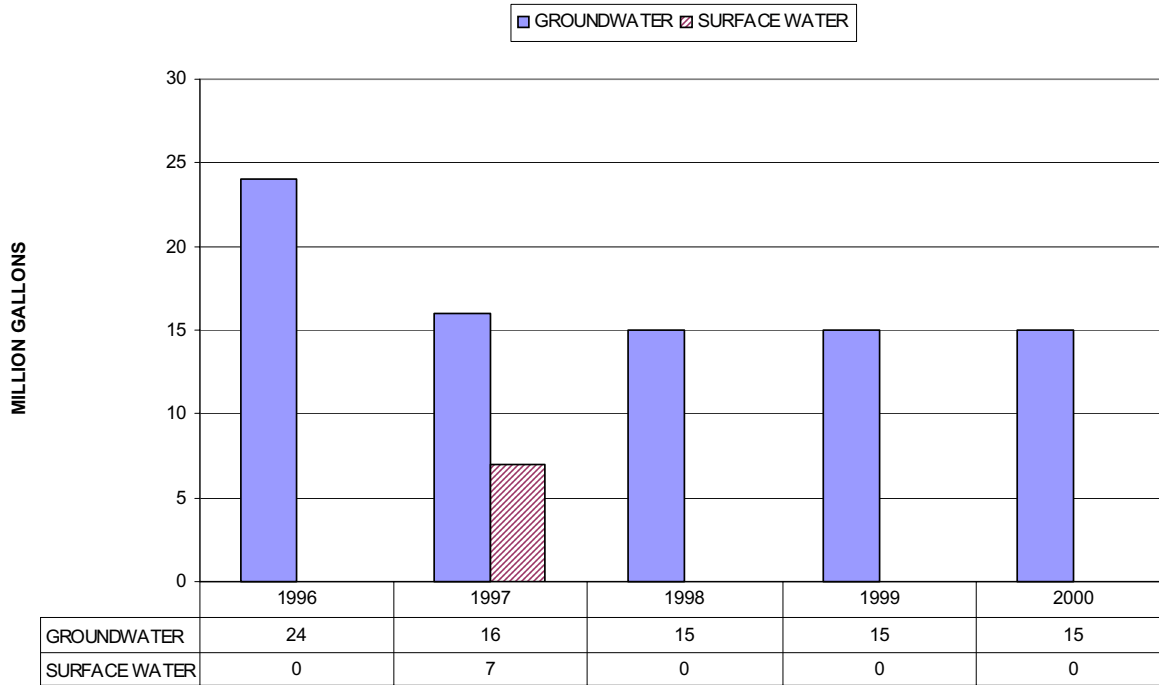
Amounts shown are in million gallons per year.

DADE COUNTY REGISTERED MAJOR WATER USE: 1996-2000



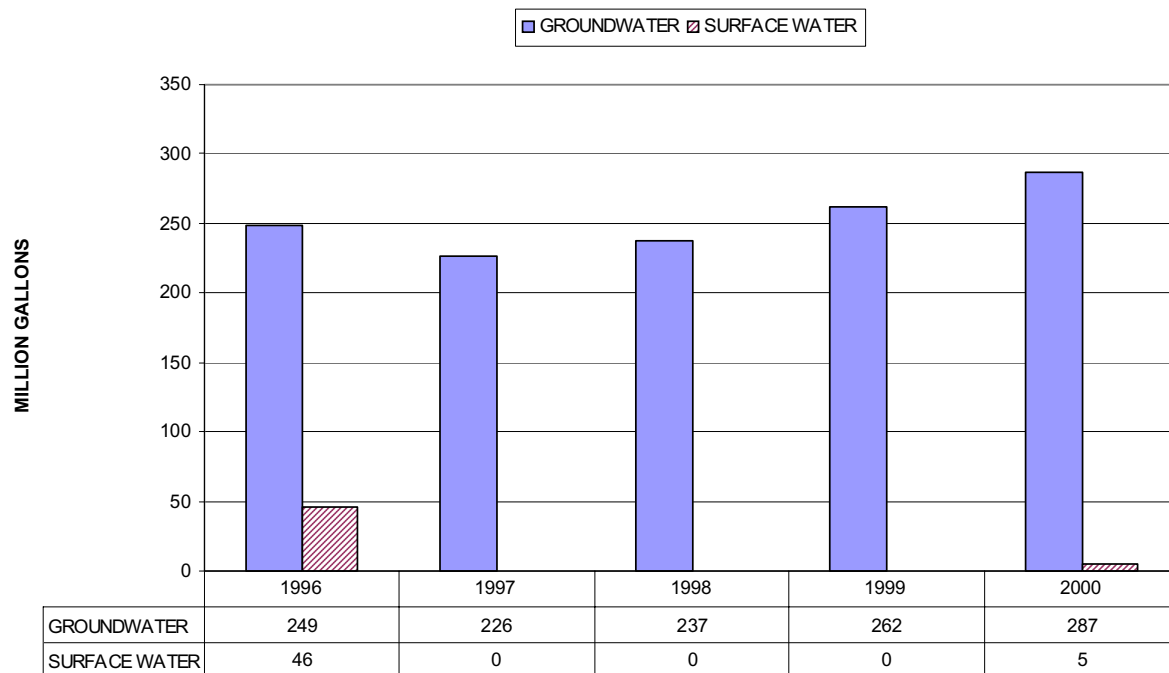
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DALLAS COUNTY REGISTERED MAJOR WATER USE: 1996-2000



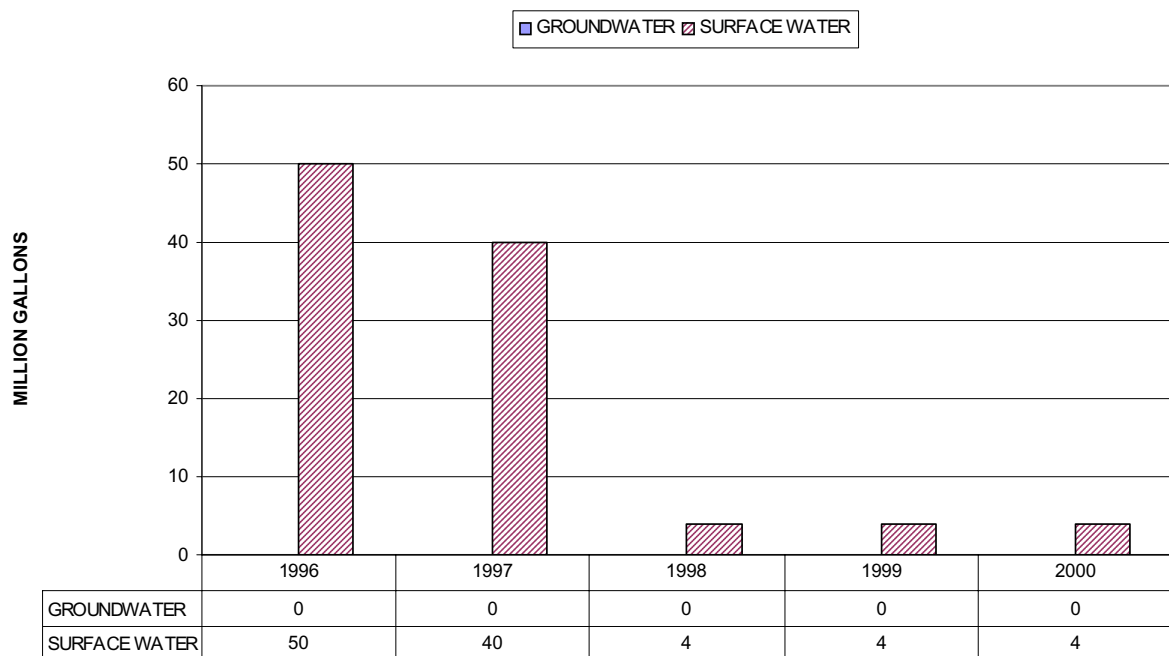
Amounts shown are in million gallons per year.

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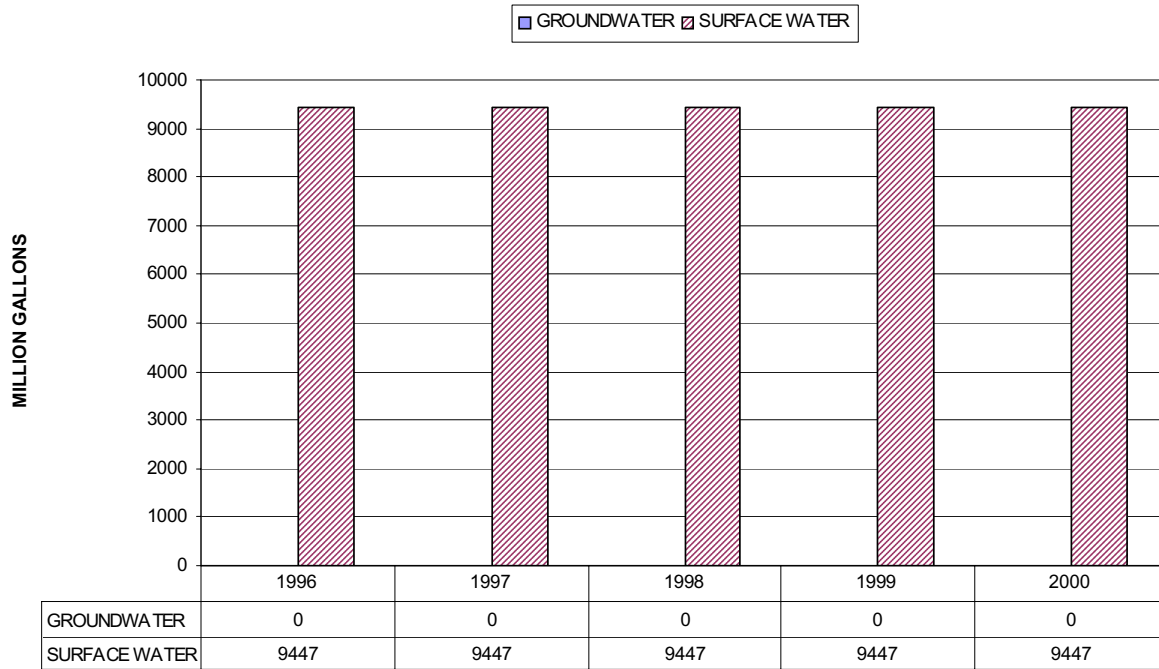
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DEKALB COUNTY REGISTERED MAJOR WATER USE: 1996-2000



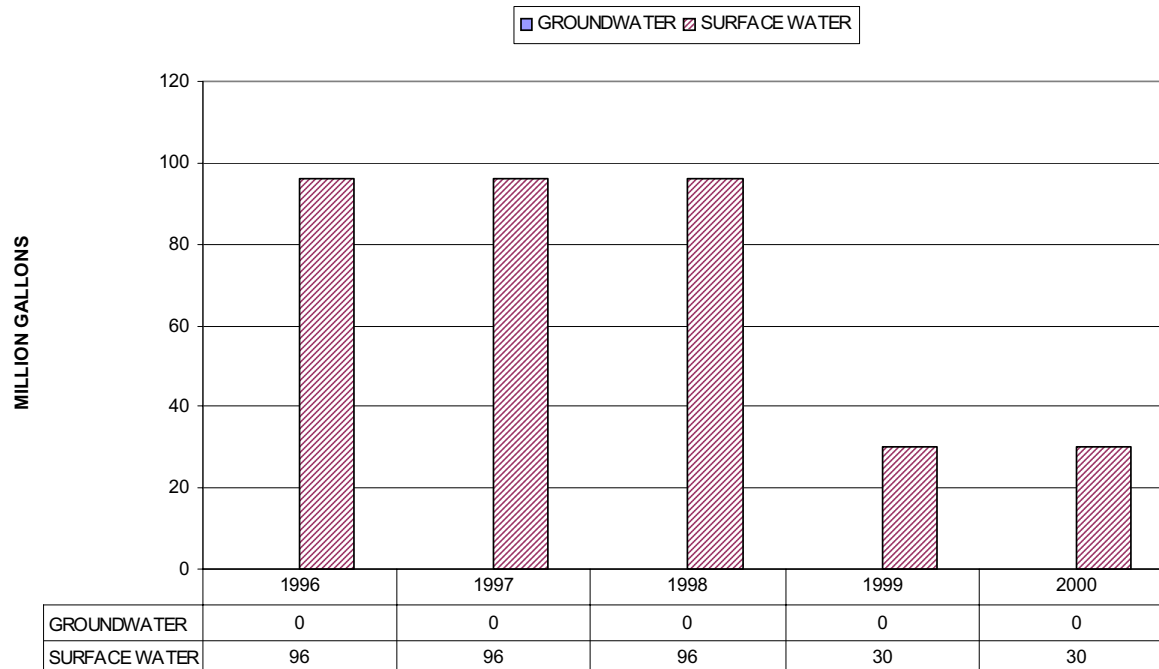
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DENT COUNTY REGISTERED MAJOR WATER USE: 1996-2000



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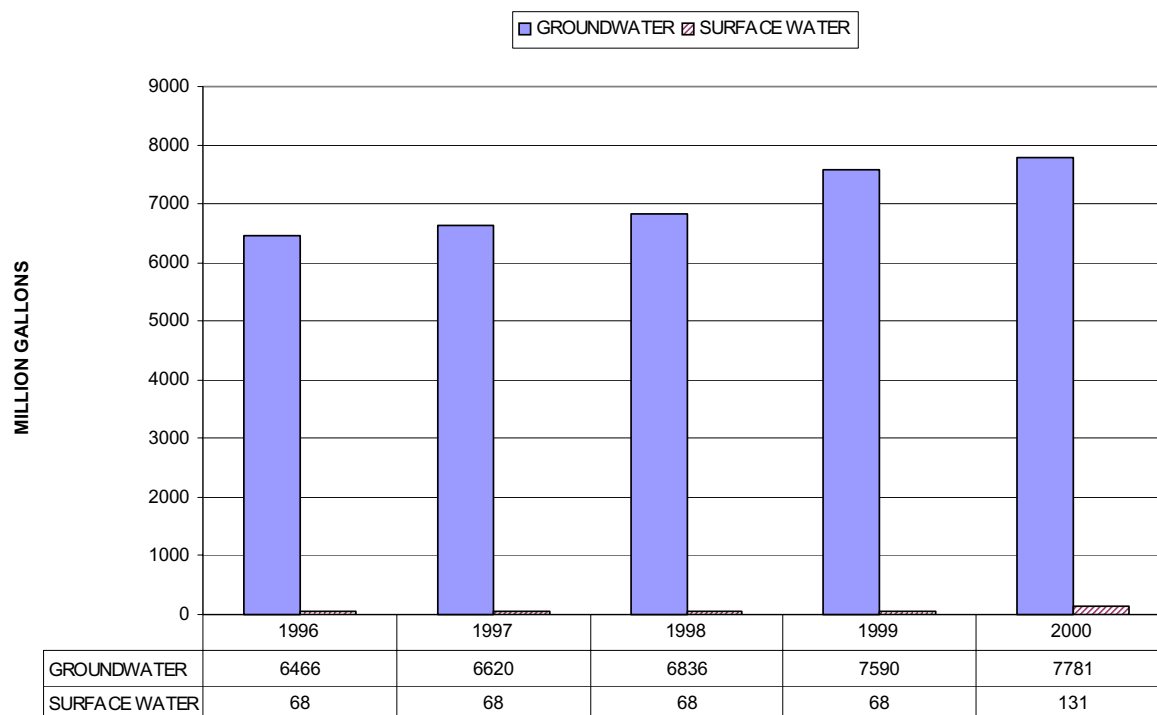
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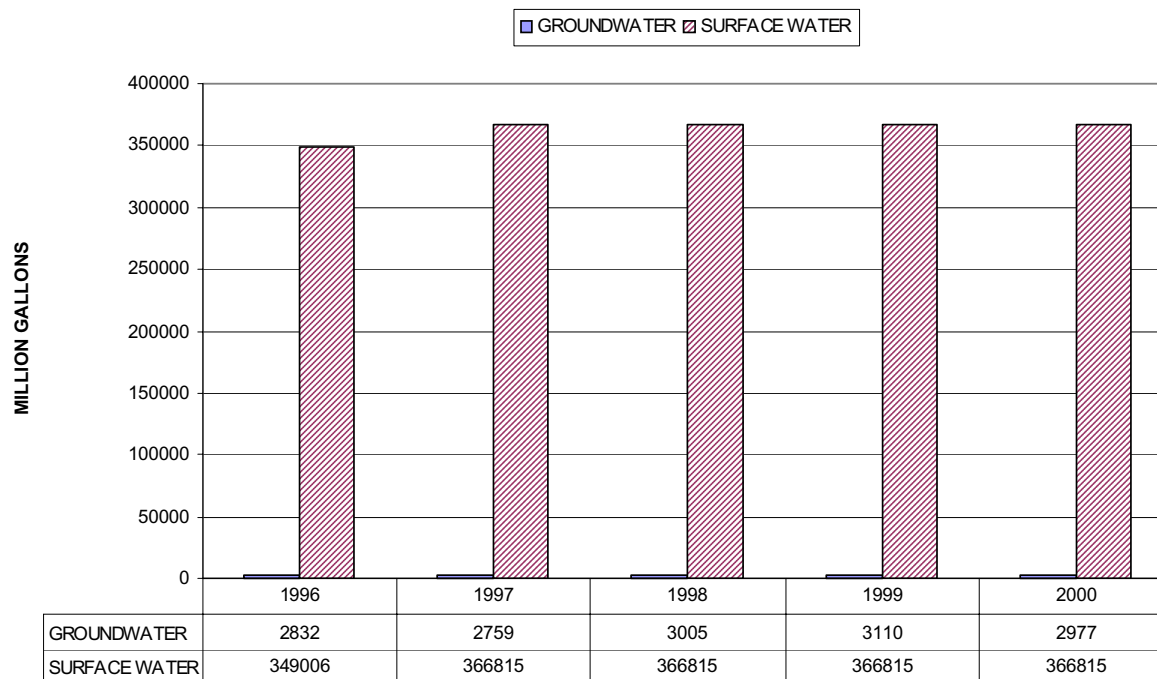


DUNKLIN COUNTY REGISTERED MAJOR WATER USE: 1996-2000



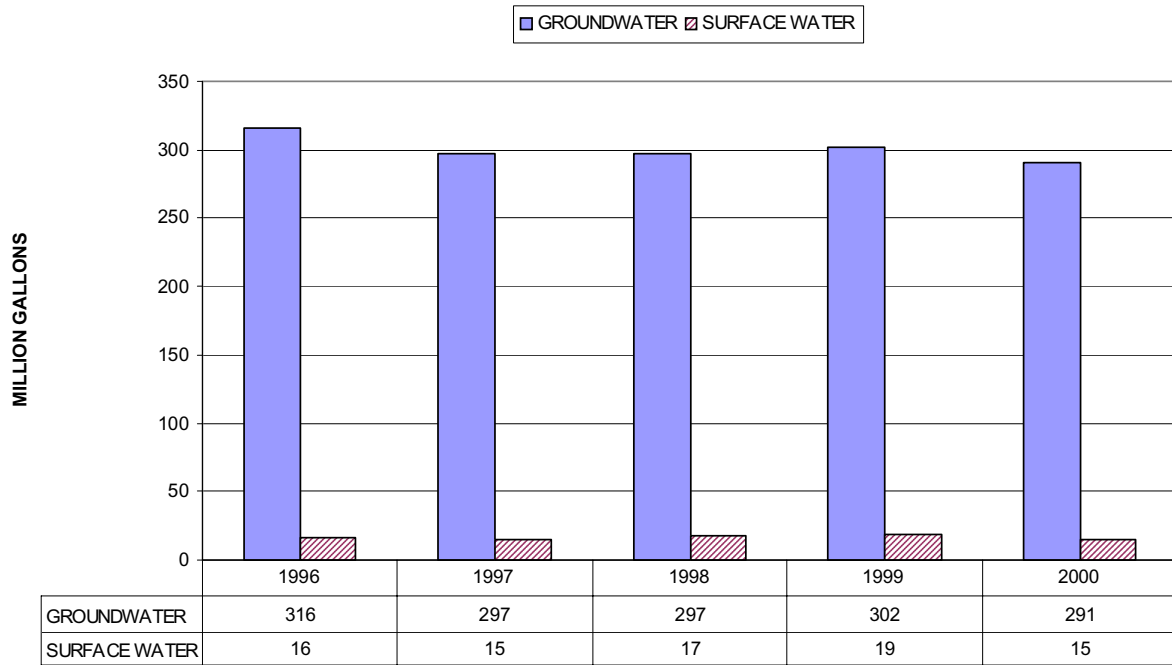
Amounts shown are in million gallons per year.

FRANKLIN COUNTY REGISTERED MAJOR WATER USE: 1996-2000



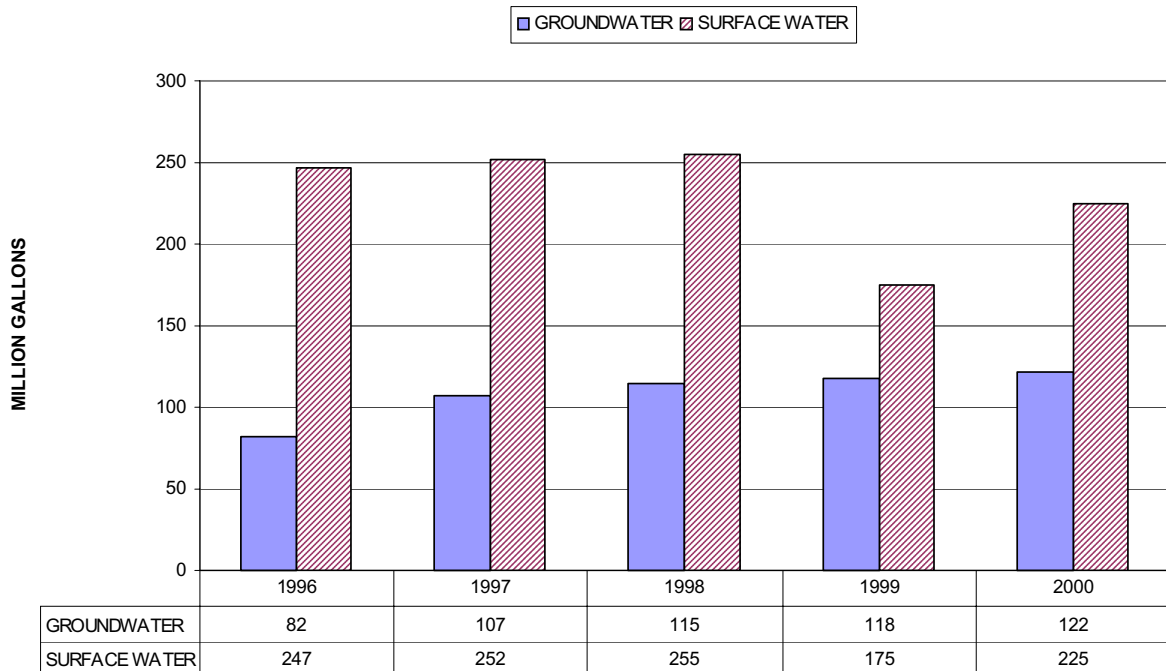
Amounts shown are in million gallons per year.

**GASCONADE COUNTY REGISTERED MAJOR WATER USE: 1996-2000**



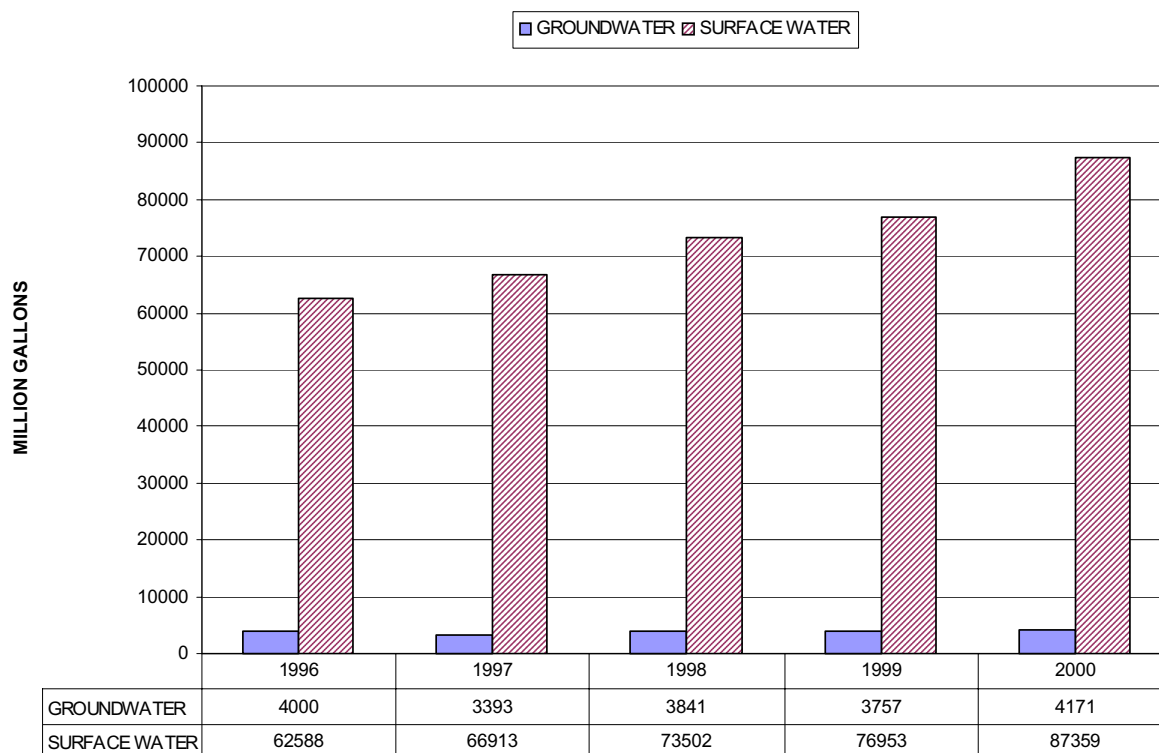
Amounts shown are in million gallons per year.

**GENTRY COUNTY REGISTERED MAJOR WATER USE: 1996-2000**



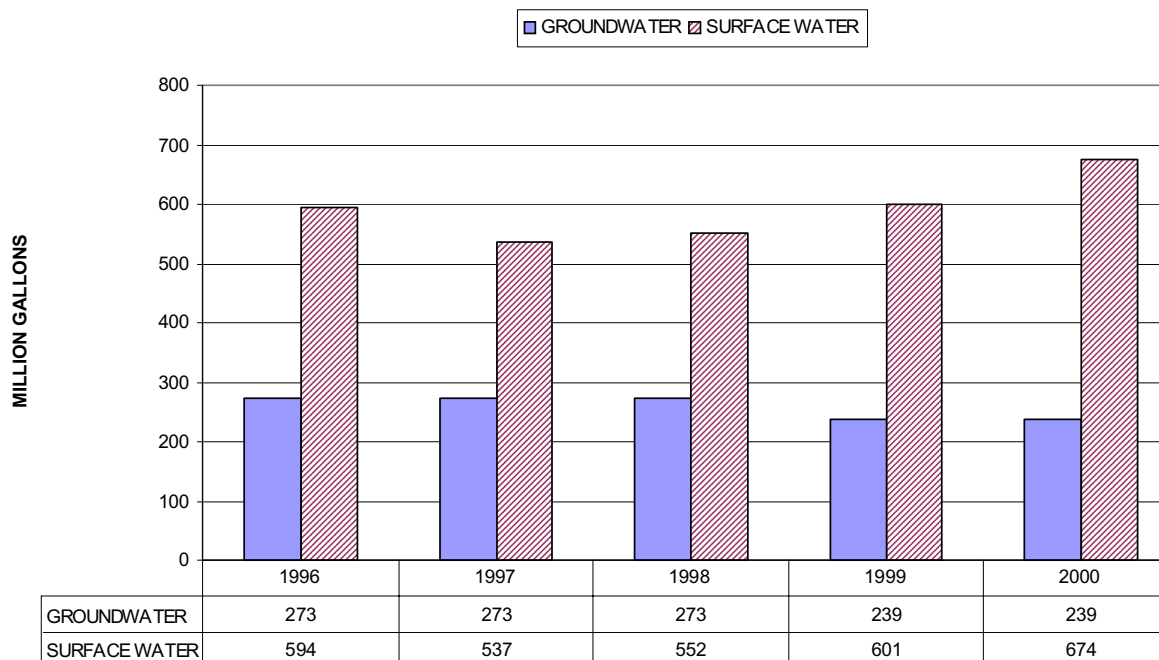
Amounts shown are in million gallons per year.

GREENE COUNTY REGISTERED MAJOR WATER USE: 1996-2000



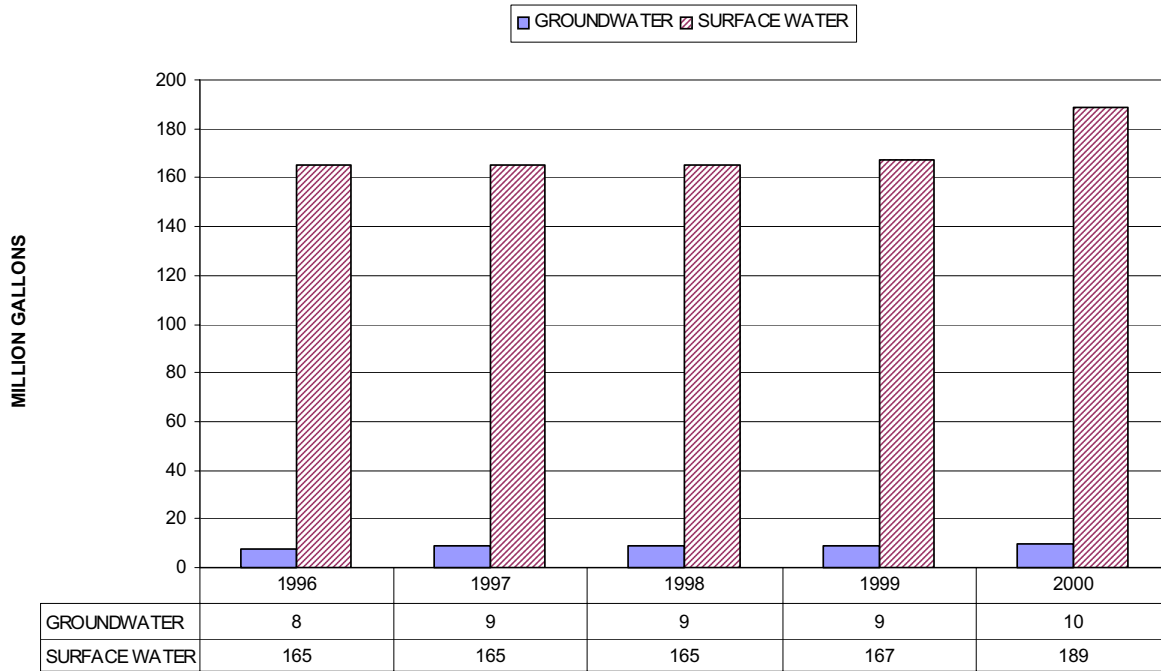
Amounts shown are in million gallons per year.

GRUNDY COUNTY REGISTERED MAJOR WATER USE: 1996-2000



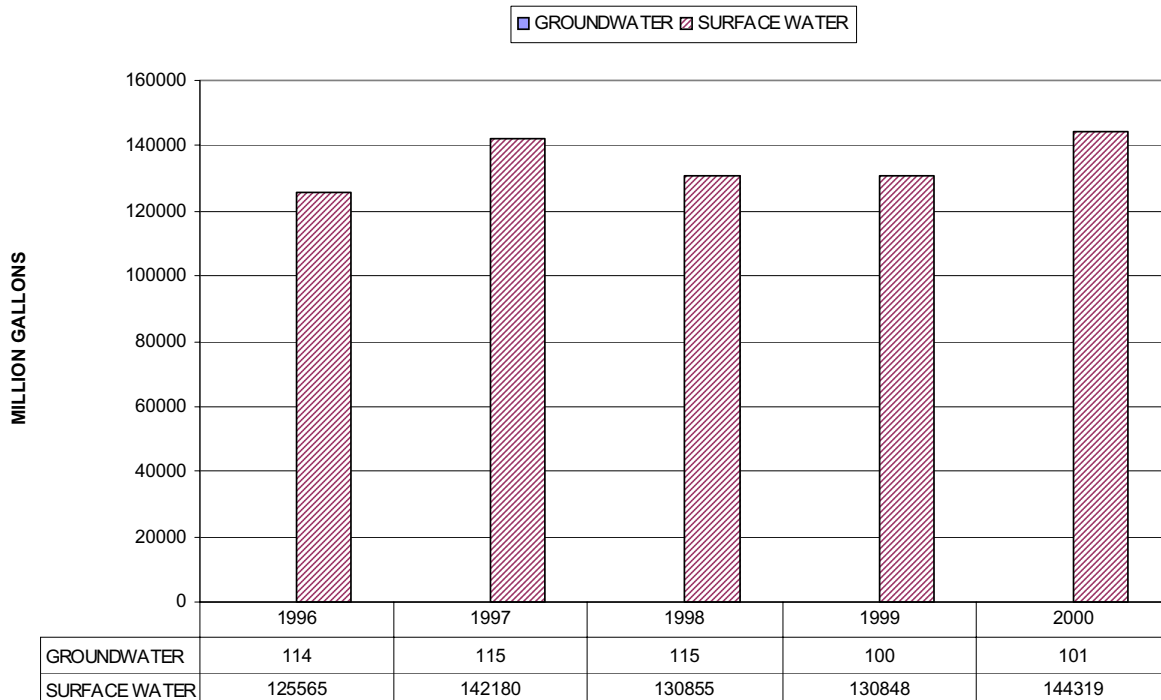
Amounts shown are in million gallons per year.

HARRISON COUNTY REGISTERED MAJOR WATER USE: 1996-2000



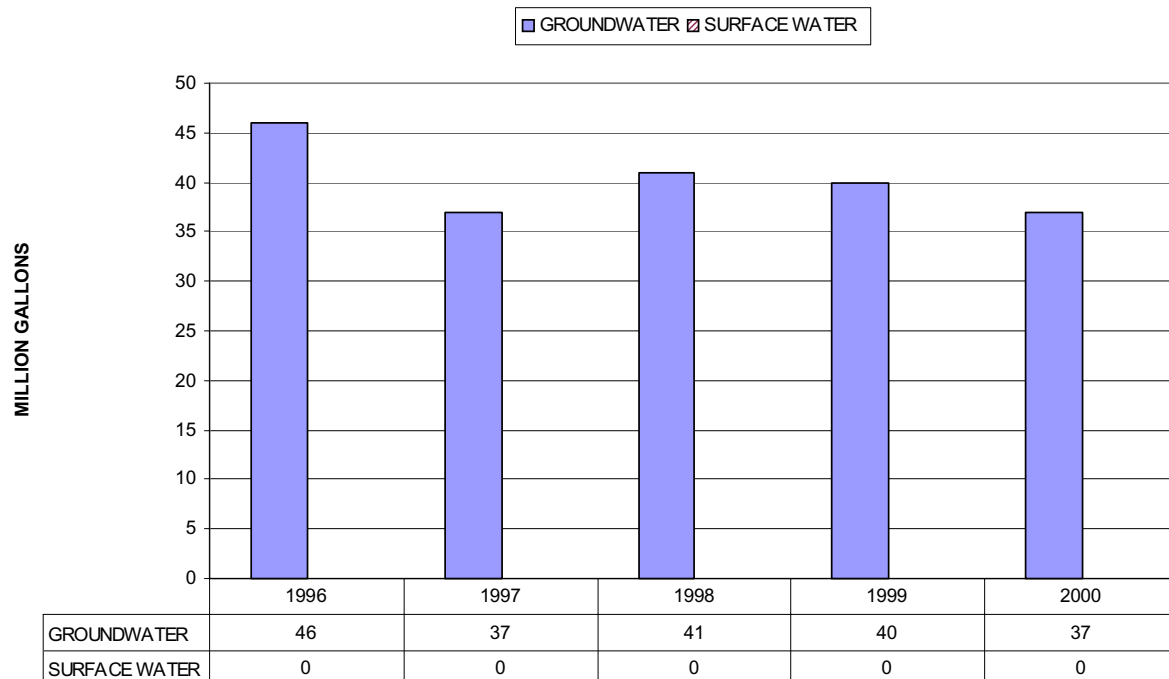
Amounts shown are in million gallons per year.

HENRY COUNTY REGISTERED MAJOR WATER USE: 1996-2000



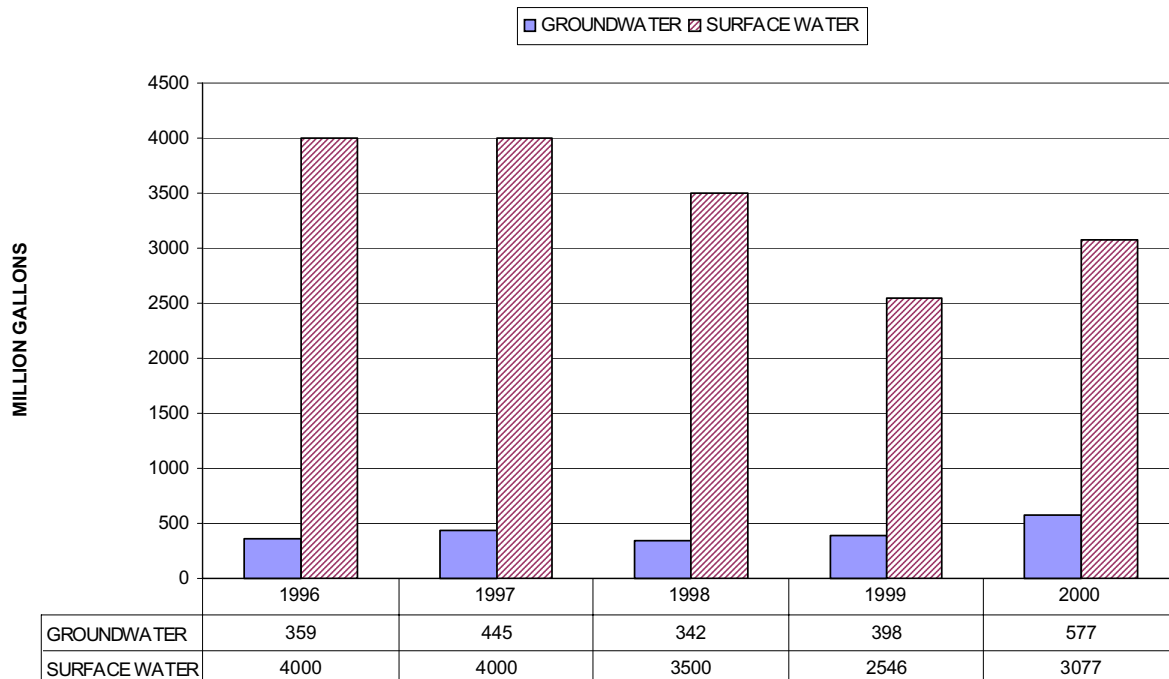
Amounts shown are in million gallons per year. Groundwater amounts are too small to be visible on graph.

HICKORY COUNTY REGISTERED MAJOR WATER USE: 1996-2000



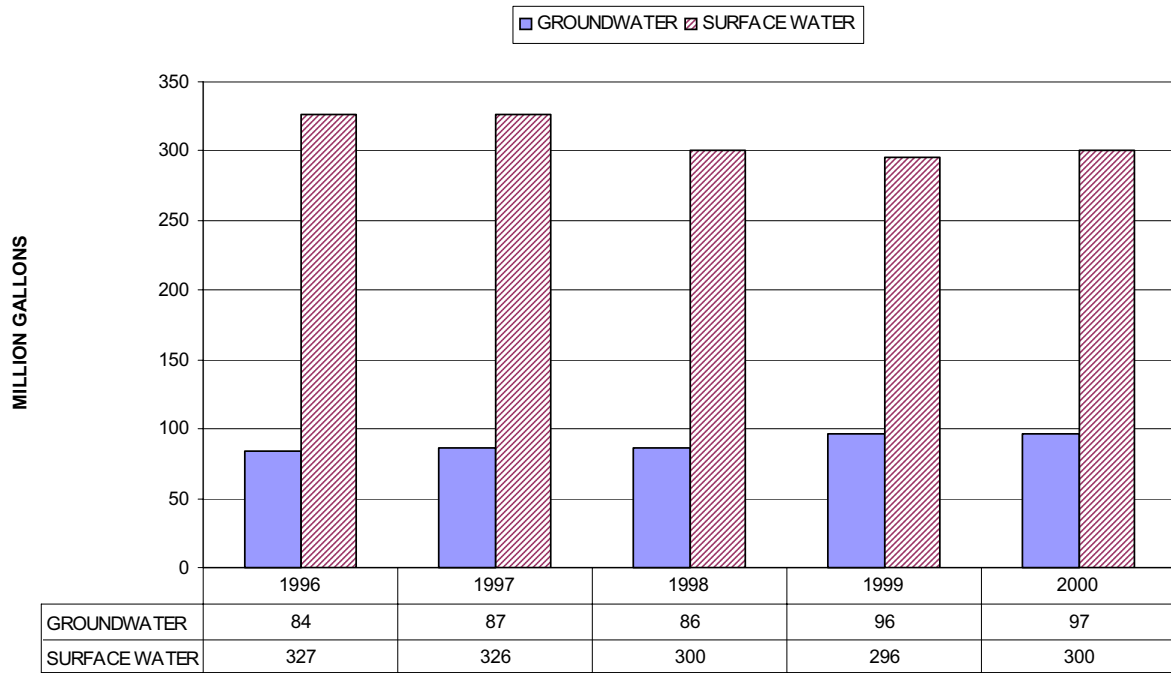
Amounts shown are in million gallons per year.

HOLT COUNTY REGISTERED MAJOR WATER USE: 1996-2000



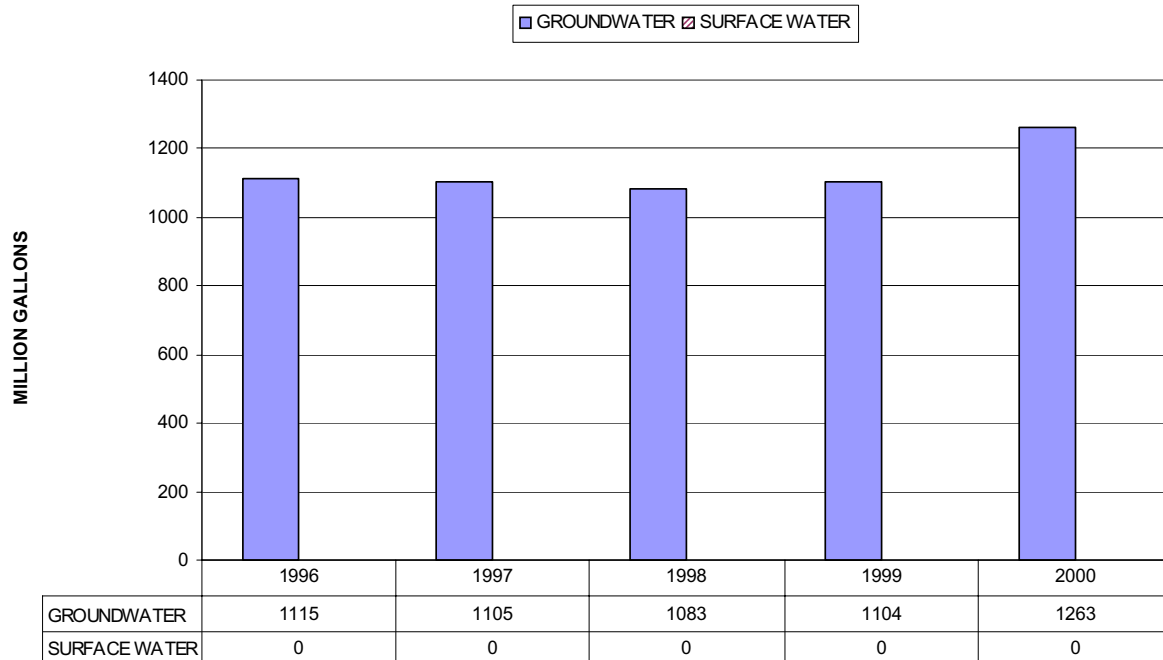
Amounts shown are in million gallons per year.

HOWARD COUNTY REGISTERED MAJOR WATER USE: 1996-2000



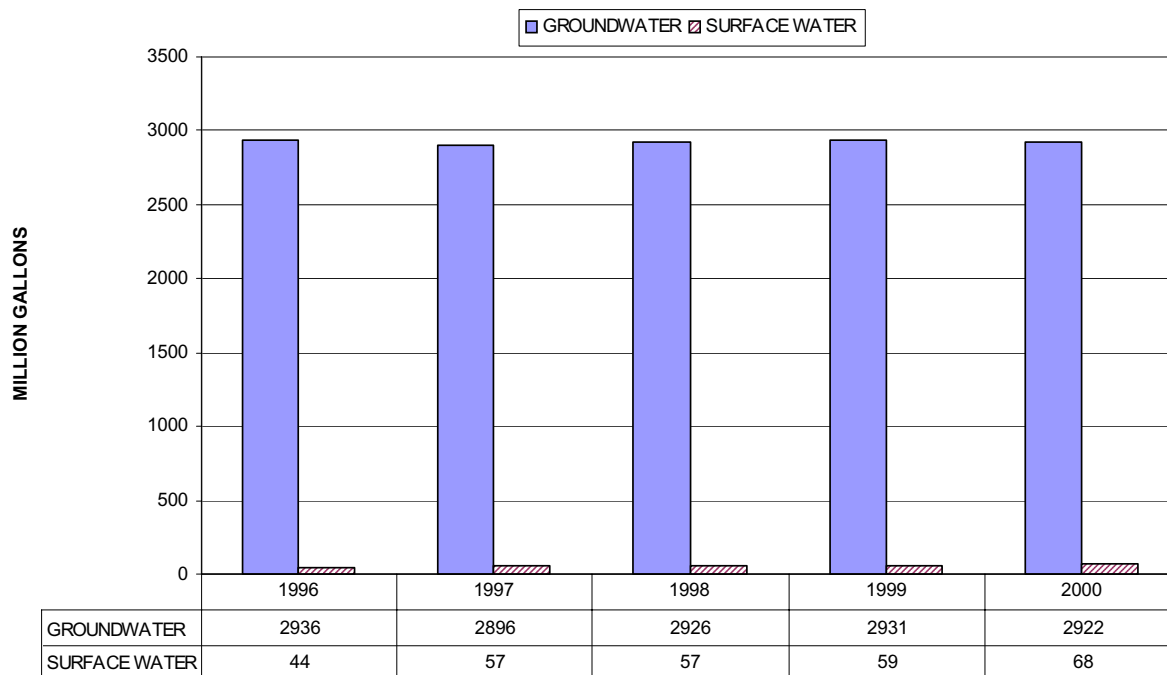
Amounts shown are in million gallons per year.

HOWELL COUNTY REGISTERED MAJOR WATER USE: 1996-2000



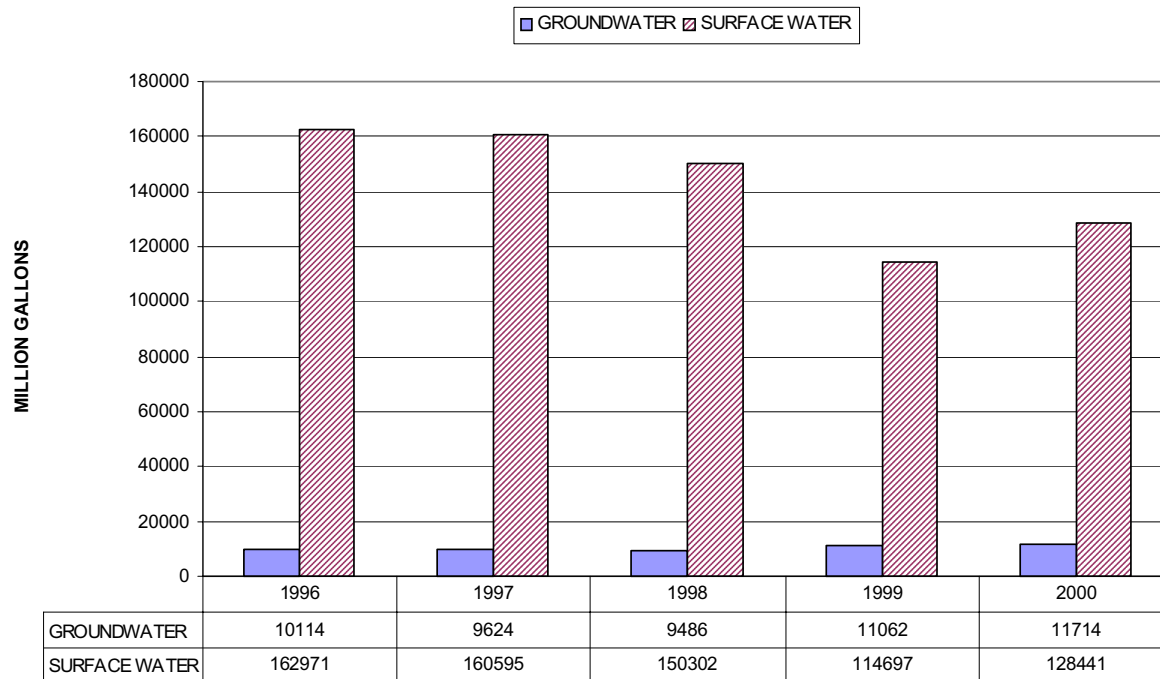
Amounts shown are in million gallons per year.

IRON COUNTY REGISTERED MAJOR WATER USE: 1996-2000



Amounts shown are in million gallons per year.

JACKSON COUNTY REGISTERED MAJOR WATER USE: 1996-2000



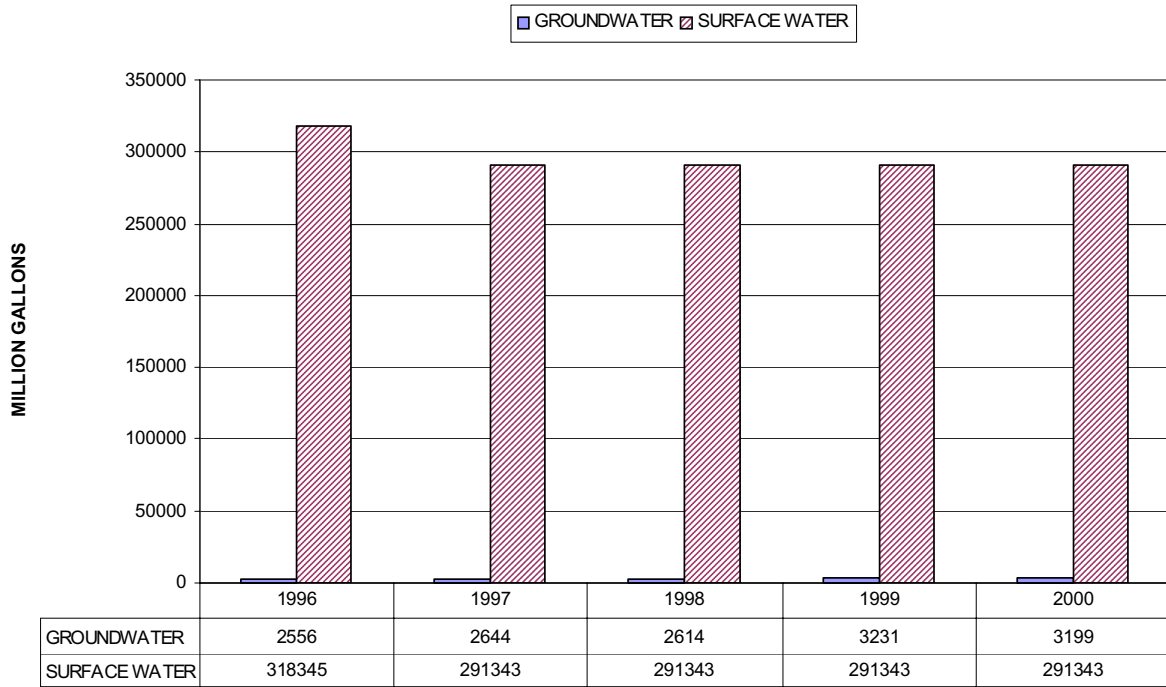
Amounts shown are in million gallons per year.

JASPER COUNTY REGISTERED MAJOR WATER USE: 1996-2000



Amounts shown are in million gallons per year.

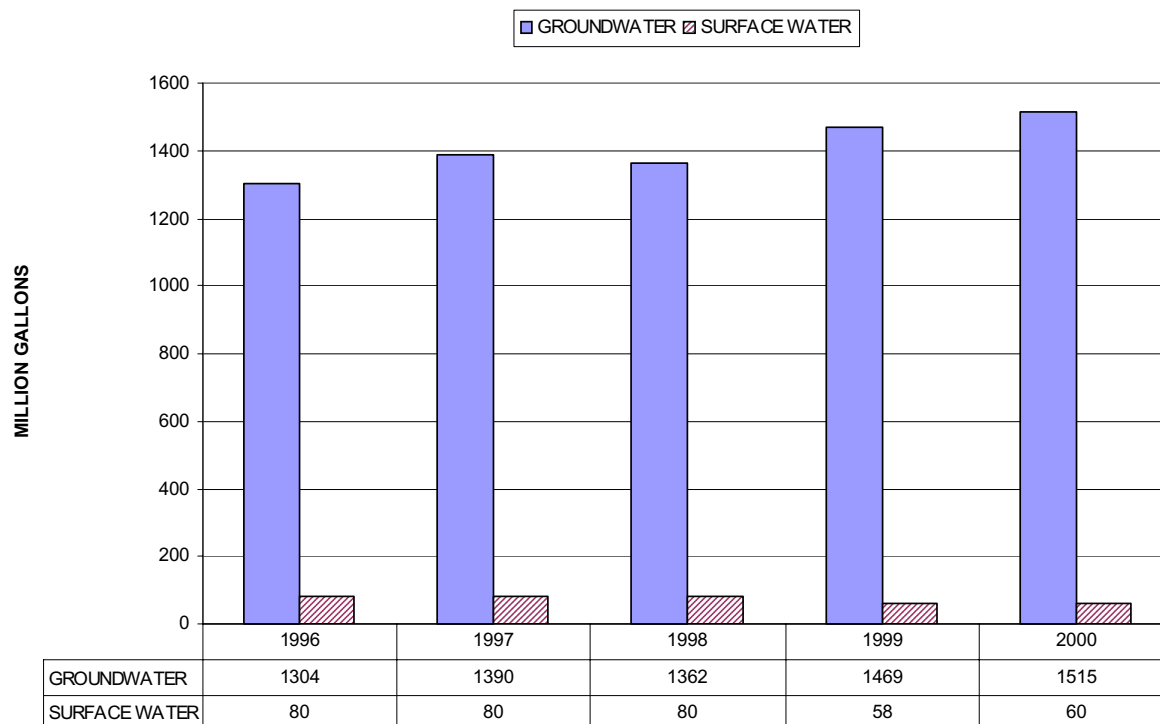
JEFFERSON COUNTY REGISTERED MAJOR WATER USE: 1996-2000



Amounts shown are in million gallons per year.

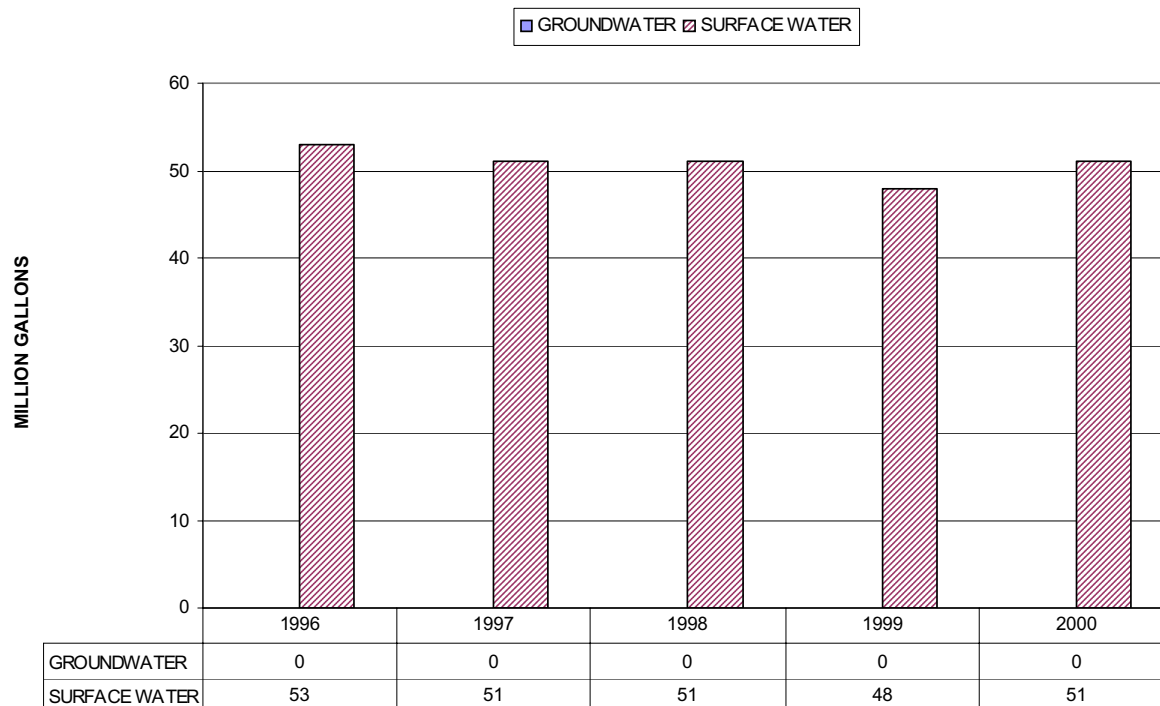


JOHNSON COUNTY REGISTERED MAJOR WATER USE: 1996-2000



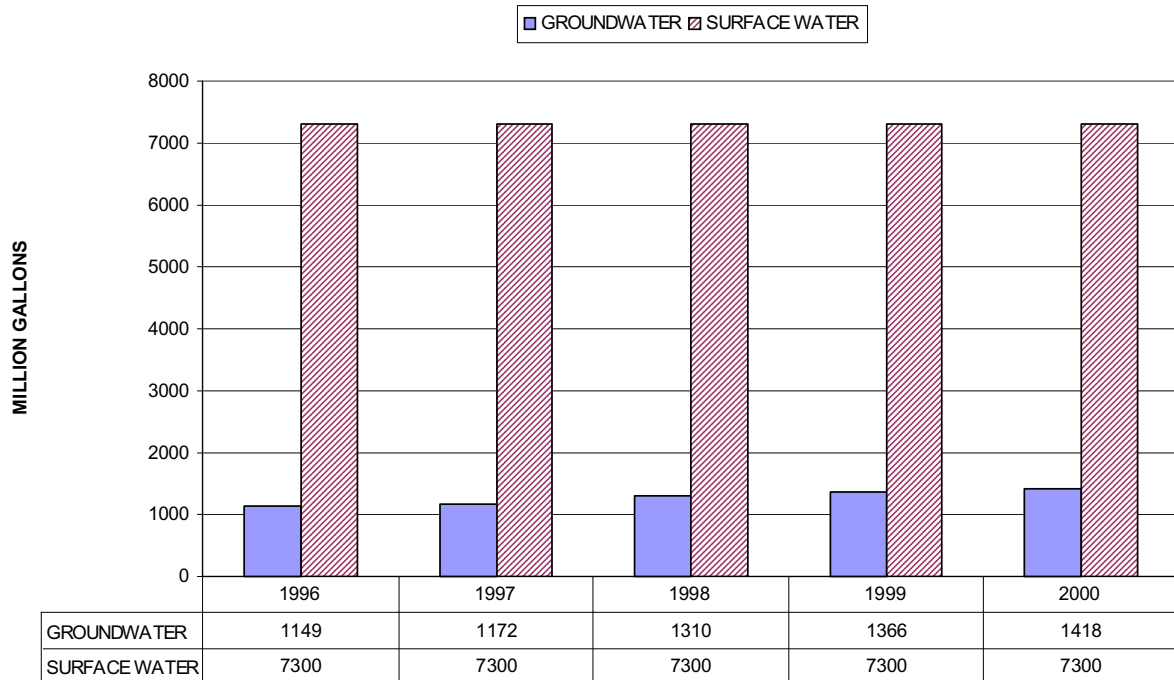
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KNOX COUNTY REGISTERED MAJOR WATER USE: 1996-2000



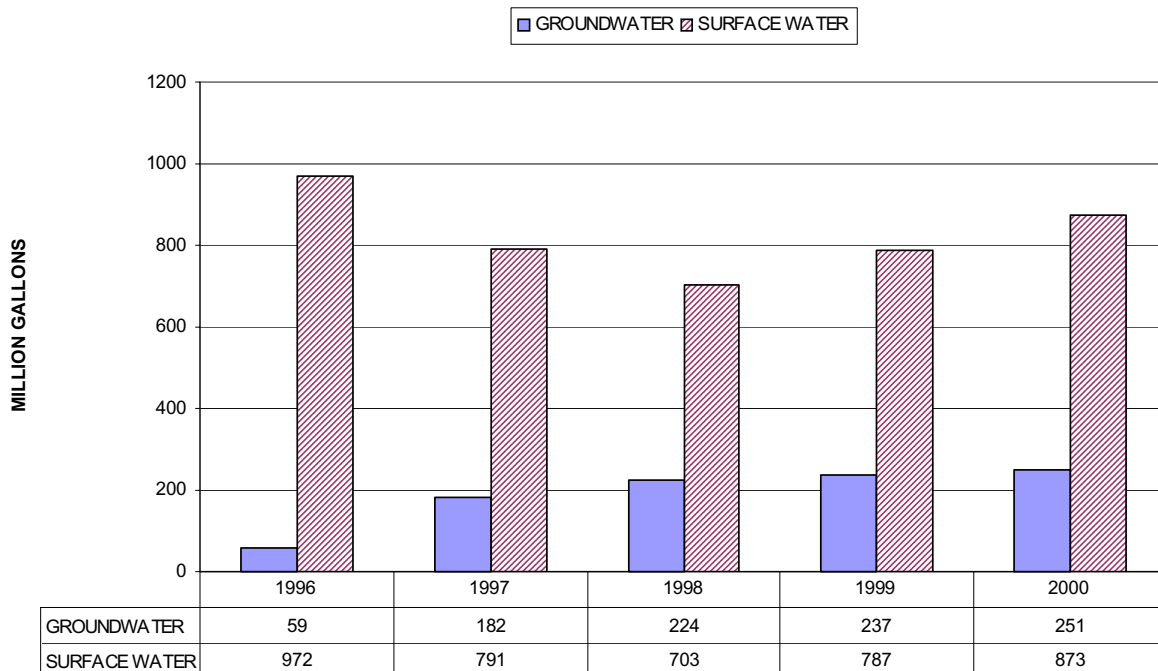
Amounts shown are in million gallons per year.

LACLEDE COUNTY REGISTERED MAJOR WATER USE: 1996-2000



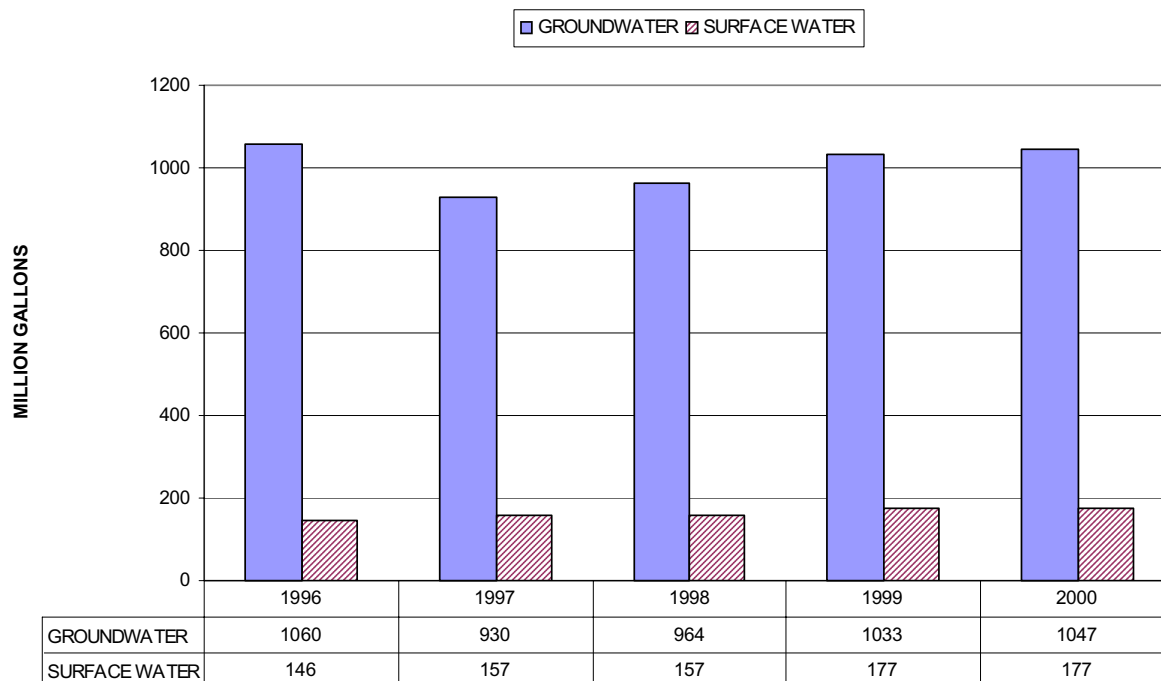
Amounts shown are in million gallons per year.

LAFAYETTE COUNTY REGISTERED MAJOR WATER USE: 1996-2000



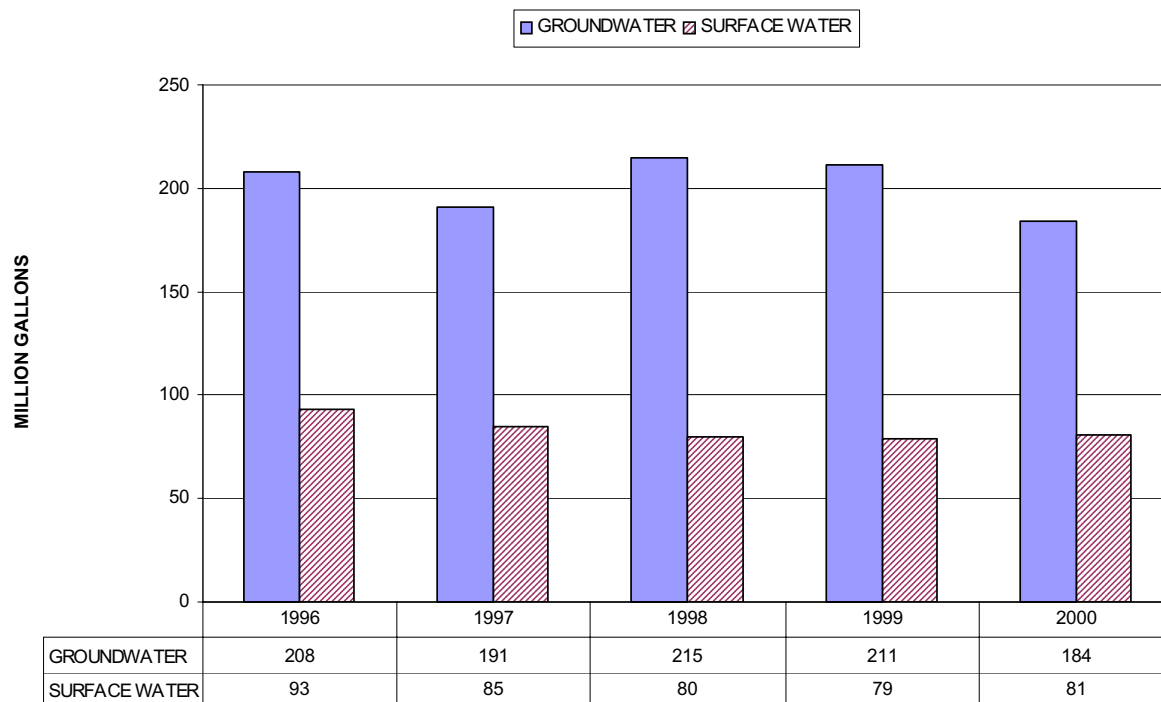
Amounts shown are in million gallons per year.

LAWRENCE COUNTY REGISTERED MAJOR WATER USE: 1996-2000



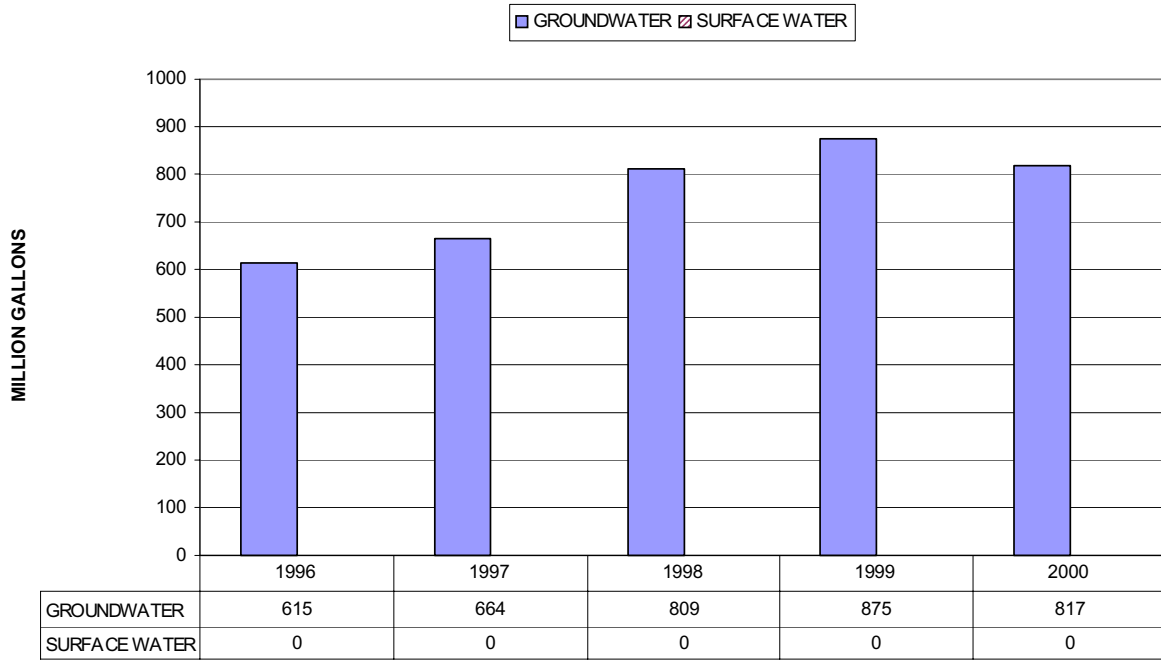
Amounts shown are in million gallons per year.

LEWIS COUNTY REGISTERED MAJOR WATER USE: 1996-2000



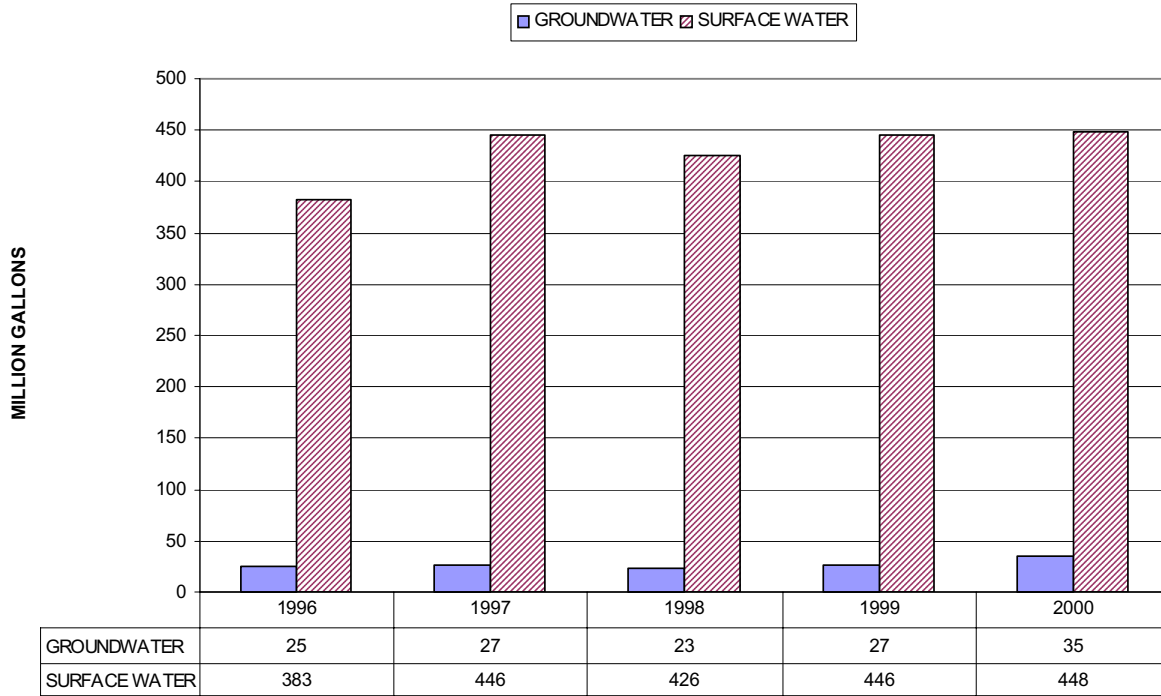
Amounts shown are in million gallons per year.

LINCOLN COUNTY REGISTERED MAJOR WATER USE: 1996-2000



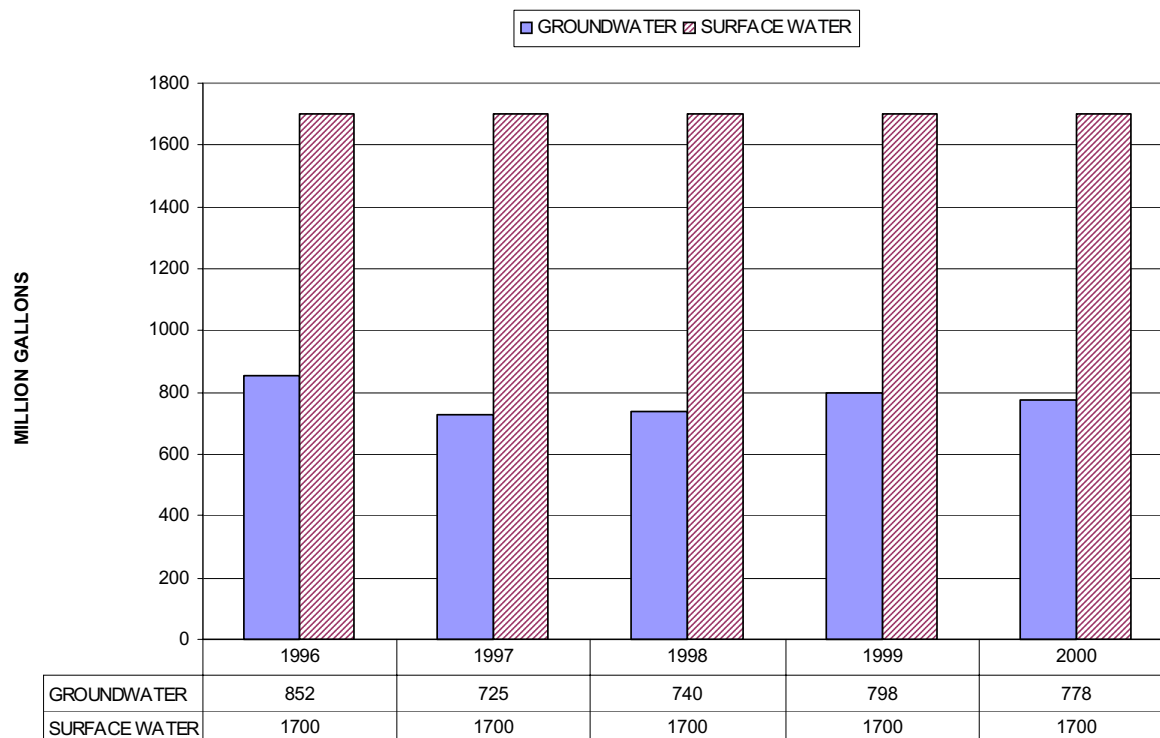
Amounts shown are in million gallons per year.

LINN COUNTY REGISTERED MAJOR WATER USE: 1996-2000



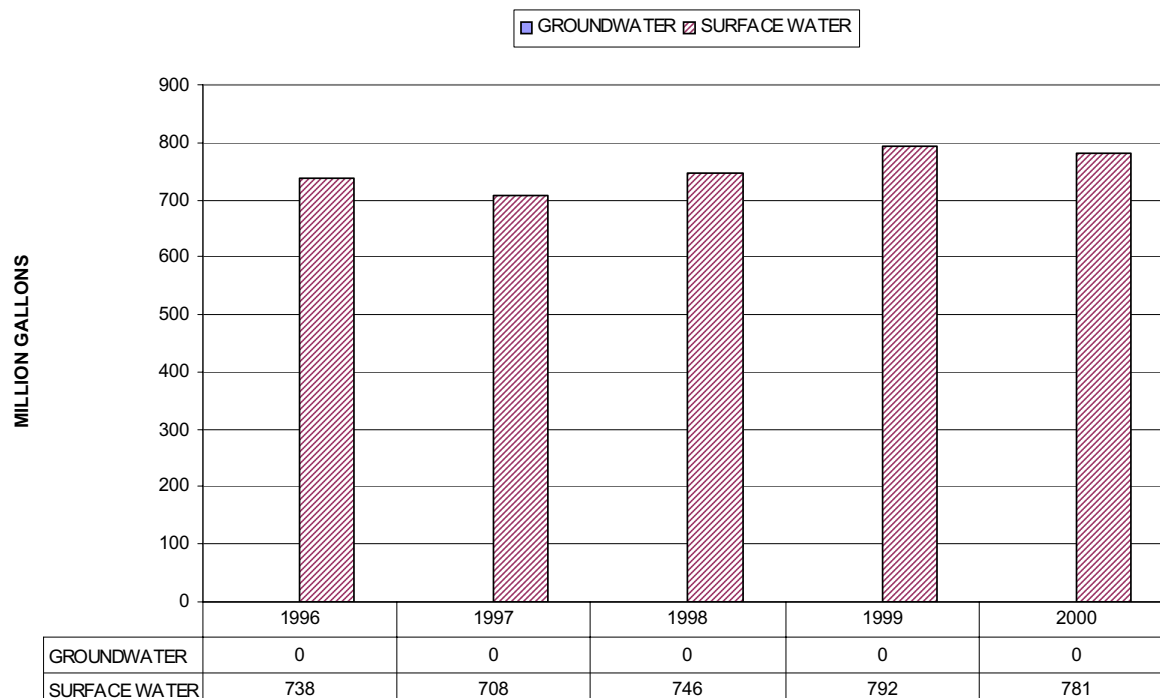
Amounts shown are in million gallons per year.

LIVINGSTON COUNTY REGISTERED MAJOR WATER USE: 1996-2000



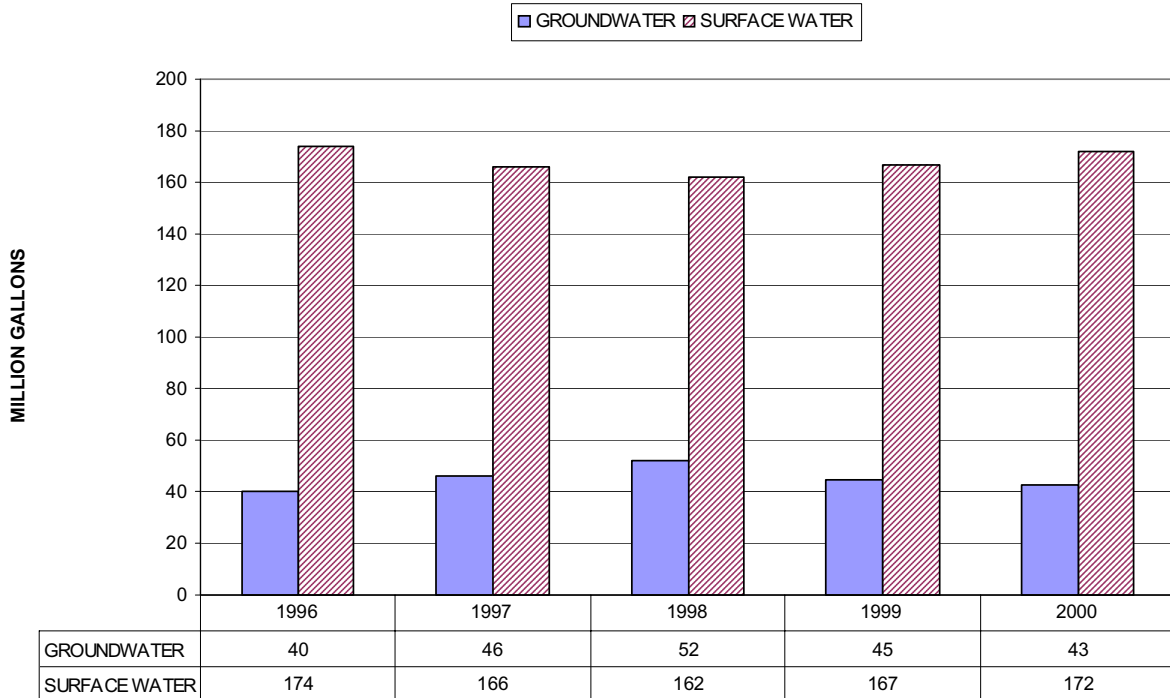
Amounts shown are in million gallons per year.

MACON COUNTY REGISTERED MAJOR WATER USE: 1996-2000



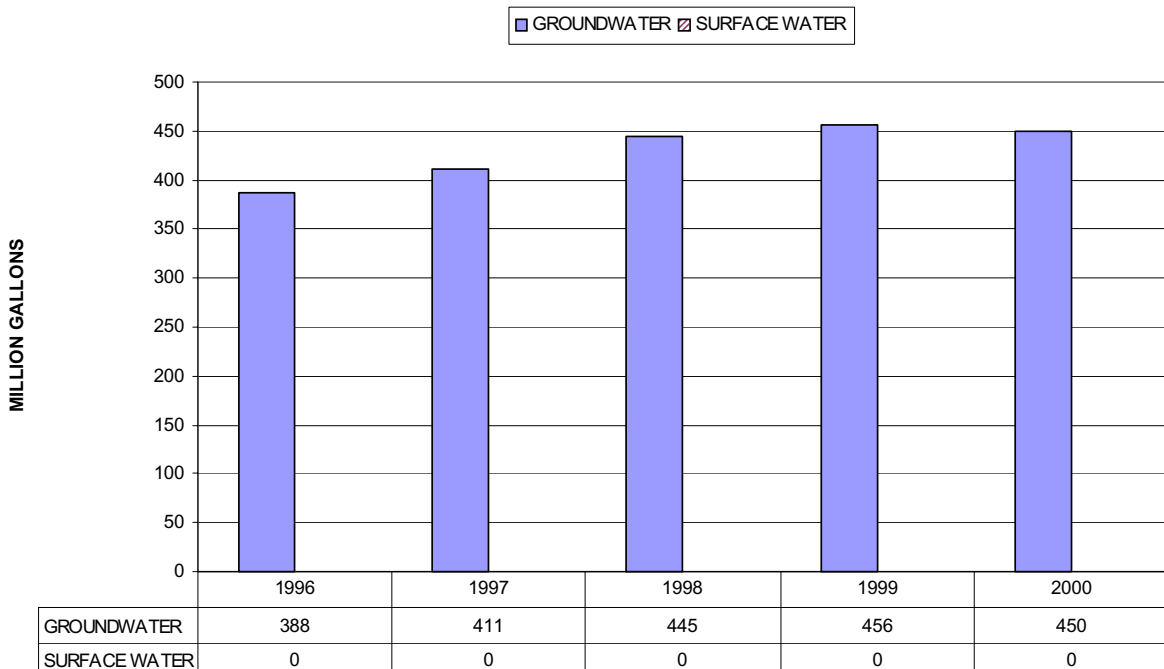
Amounts shown are in million gallons per year.

MADISON COUNTY REGISTERED MAJOR WATER USE: 1996-2000



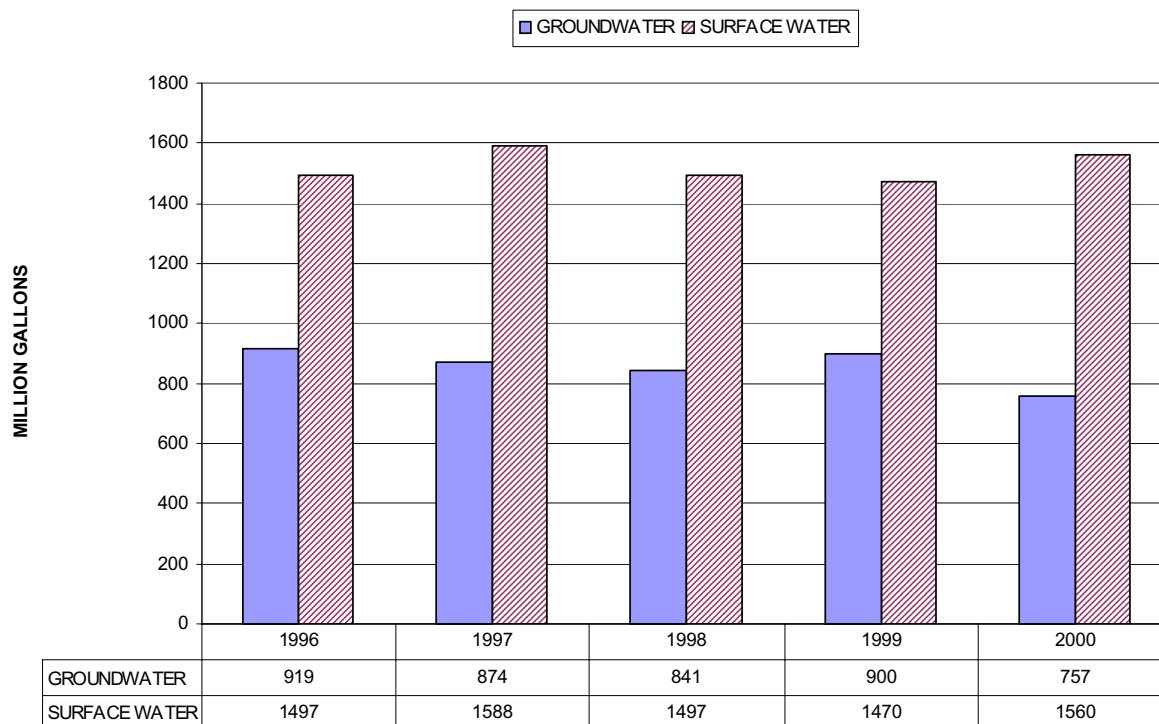
Amounts shown are in million gallons per year.

MARIES COUNTY REGISTERED MAJOR WATER USE: 1996-2000



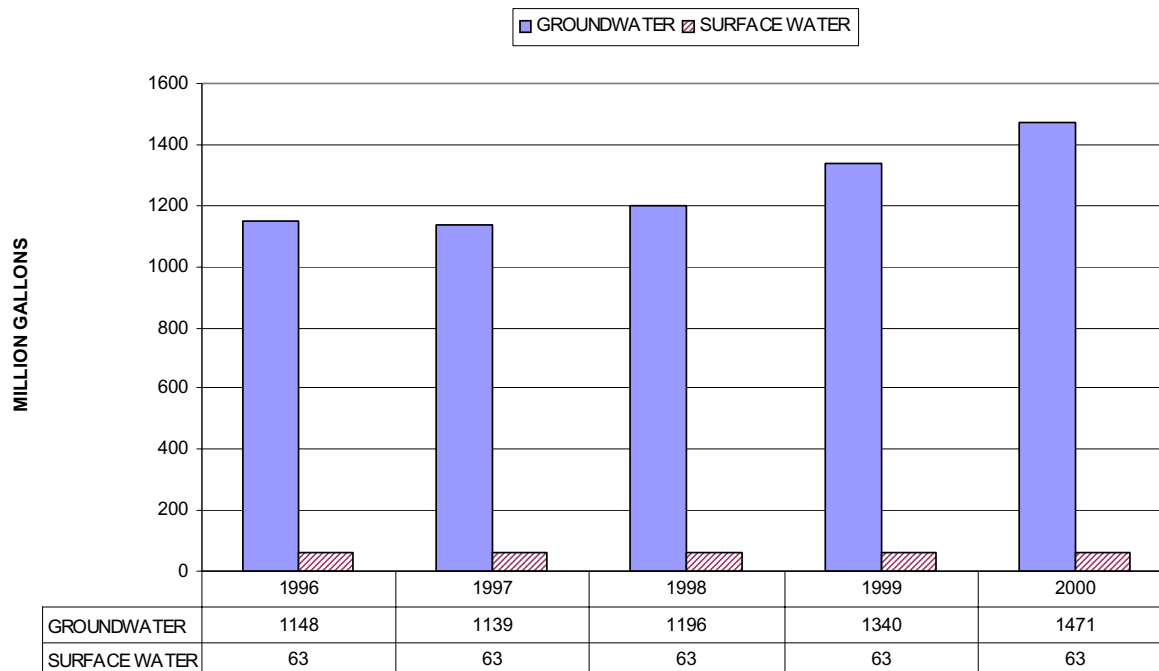
Amounts shown are in million gallons per year.

MARION COUNTY REGISTERED MAJOR WATER USE: 1996-2000



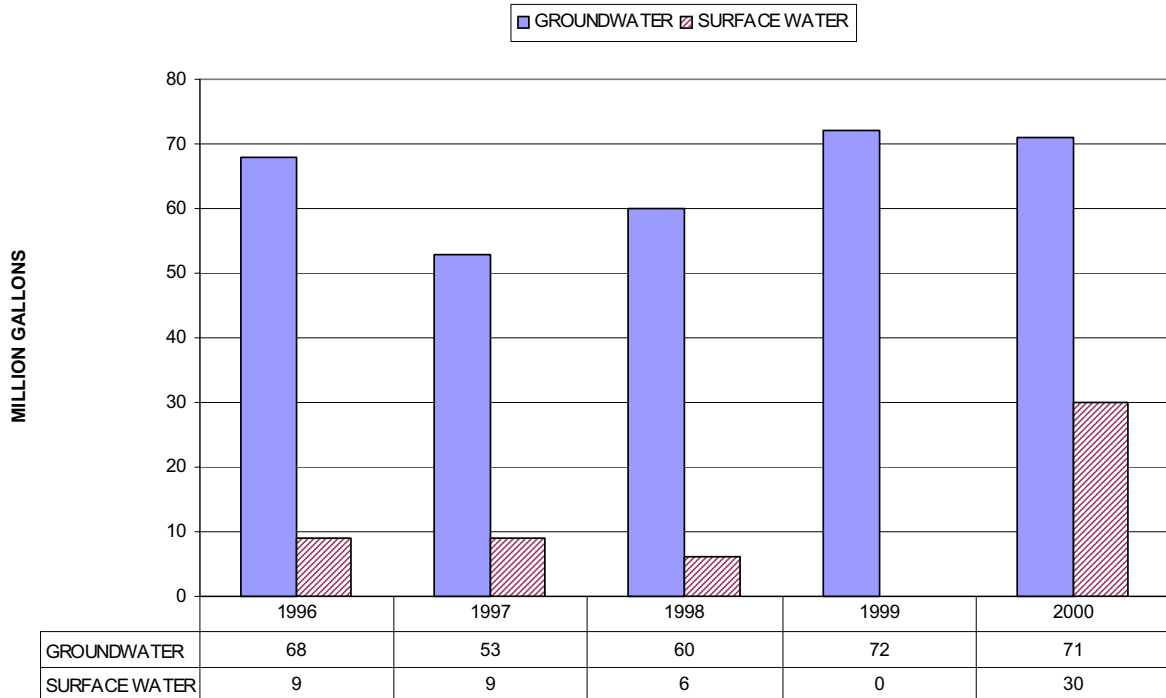
Amounts shown are in million gallons per year.

MCDONALD COUNTY REGISTERED MAJOR WATER USE: 1996-2000



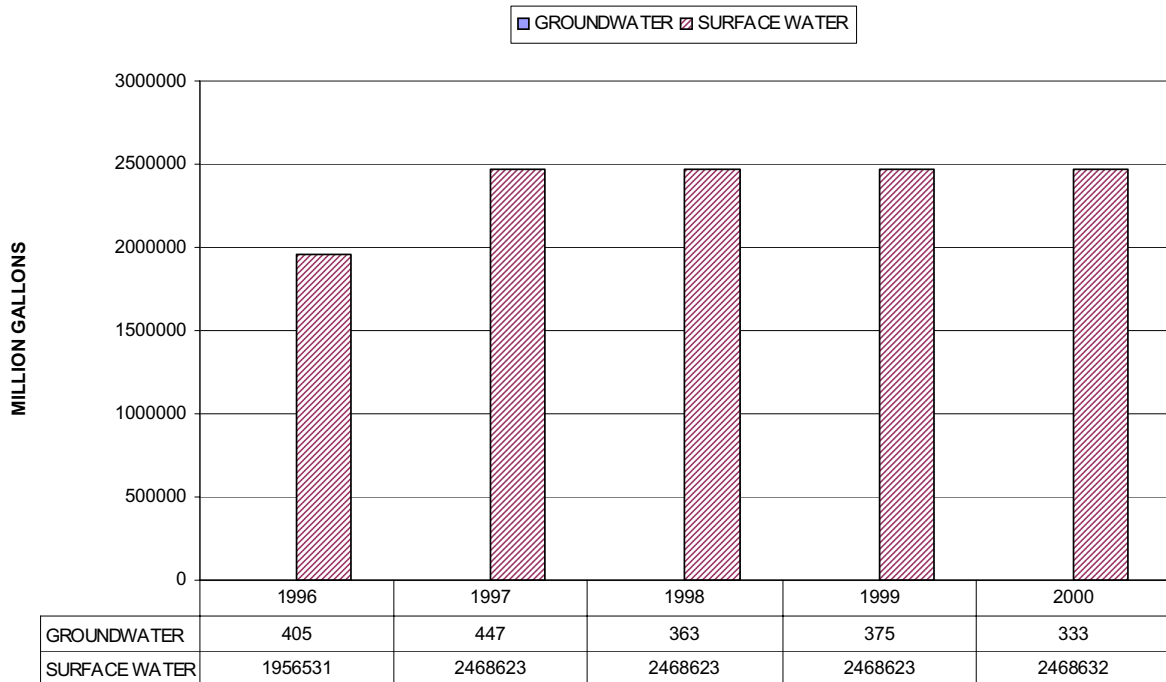
Amounts shown are in million gallons per year.

MERCER COUNTY REGISTERED MAJOR WATER USE: 1996-2000



Amounts shown are in million gallons per year.

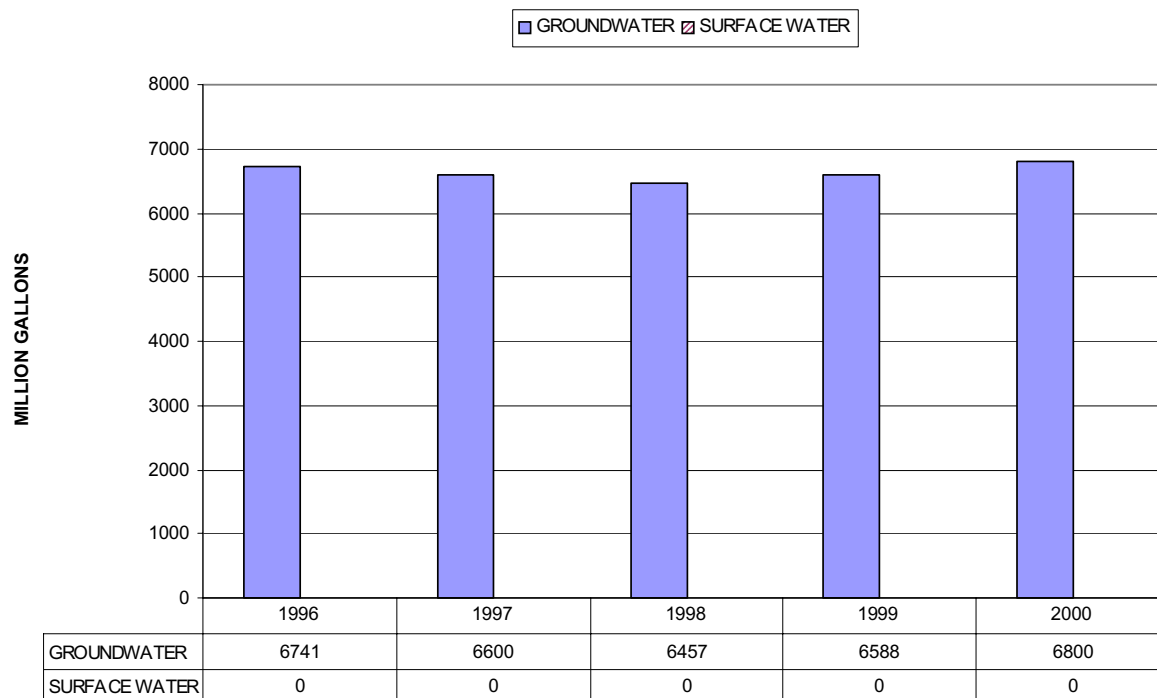
MILLER COUNTY REGISTERED MAJOR WATER USE: 1996-2000



Amounts shown are in million gallons per year. Groundwater amounts are too small to be visible on graph.

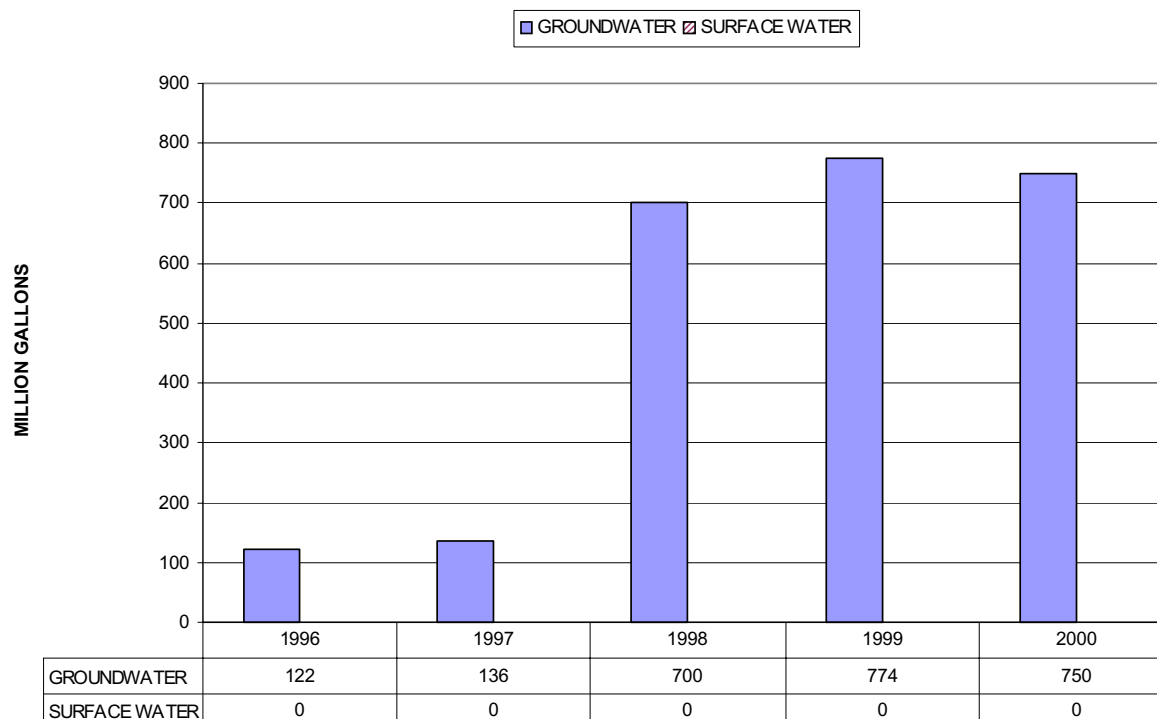


MISSISSIPPI COUNTY REGISTERED MAJOR WATER USE: 1996-2000



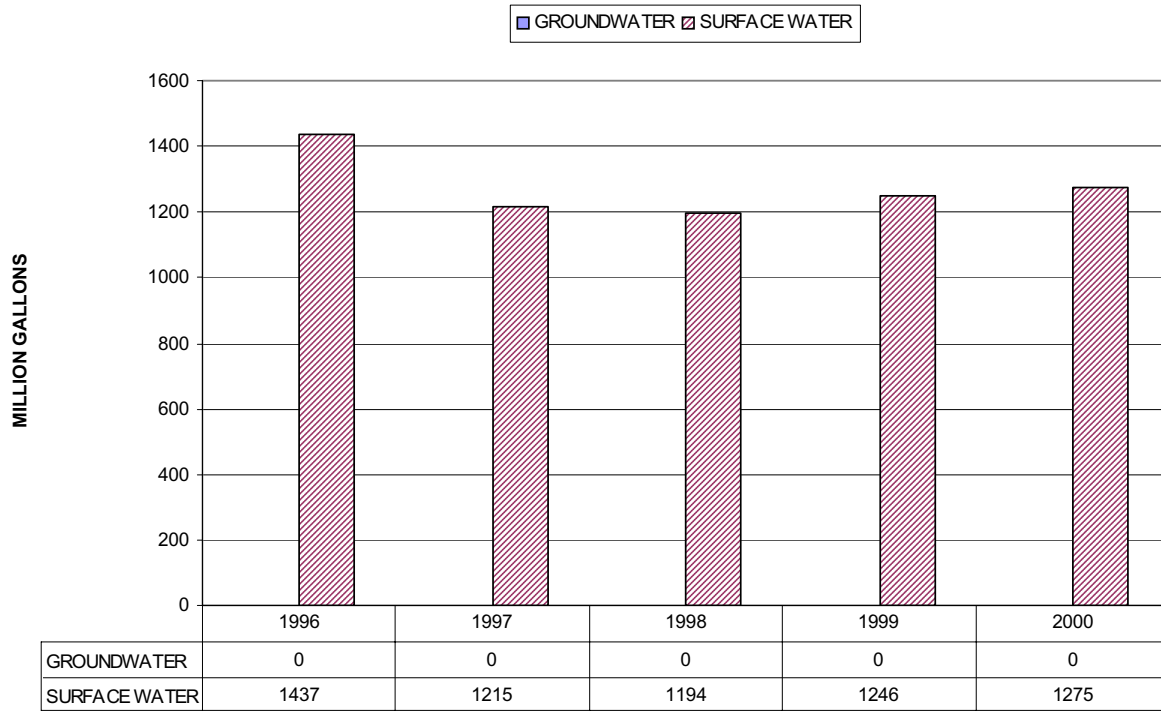
Amounts shown are in million gallons per year.

MONTEAU COUNTY REGISTERED MAJOR WATER USE: 1996-2000



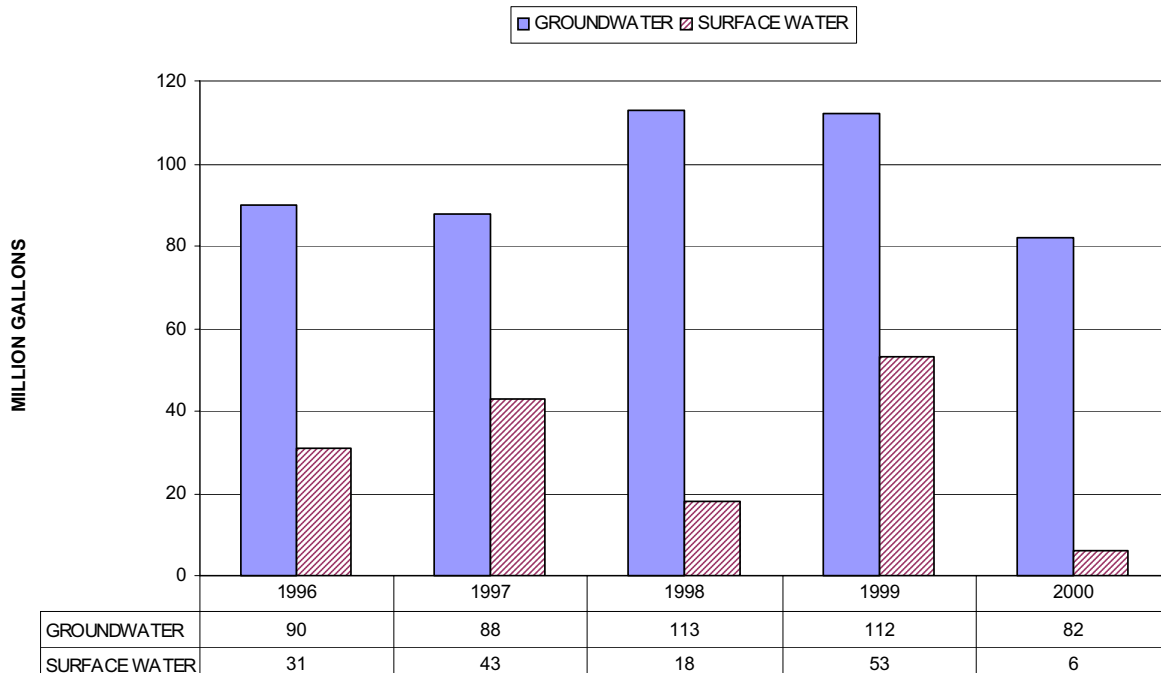
Amounts shown are in million gallons per year.

MONROE COUNTY REGISTERED MAJOR WATER USE: 1996-2000



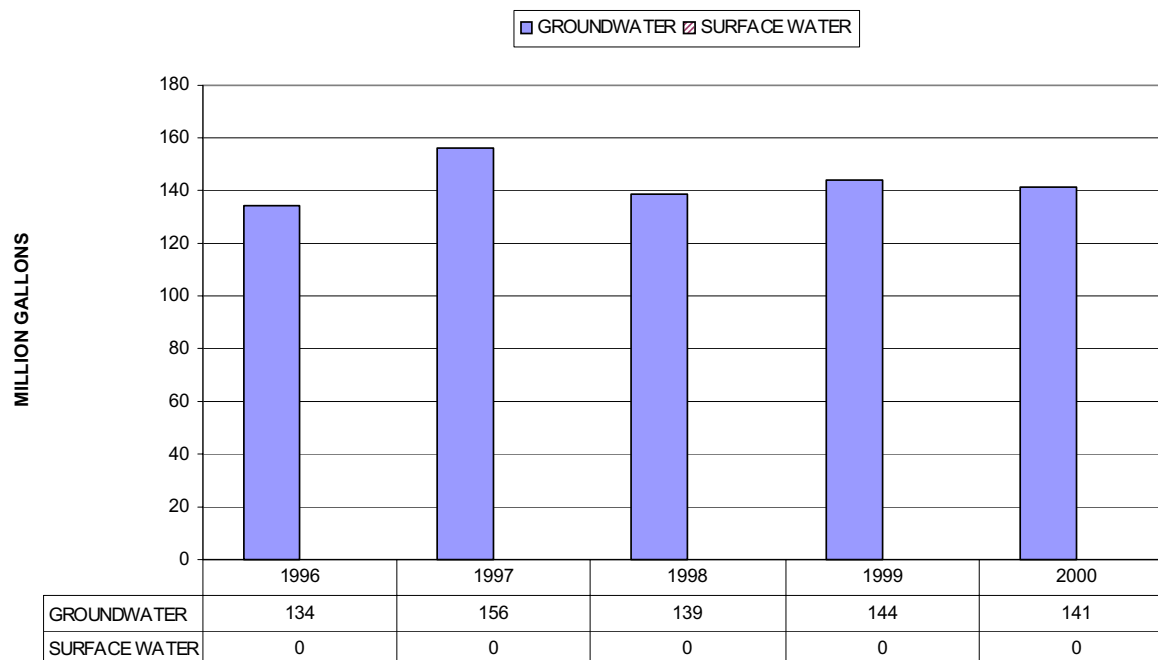
Amounts shown are in million gallons per year.

MONTGOMERY COUNTY REGISTERED MAJOR WATER USE: 1996-2000



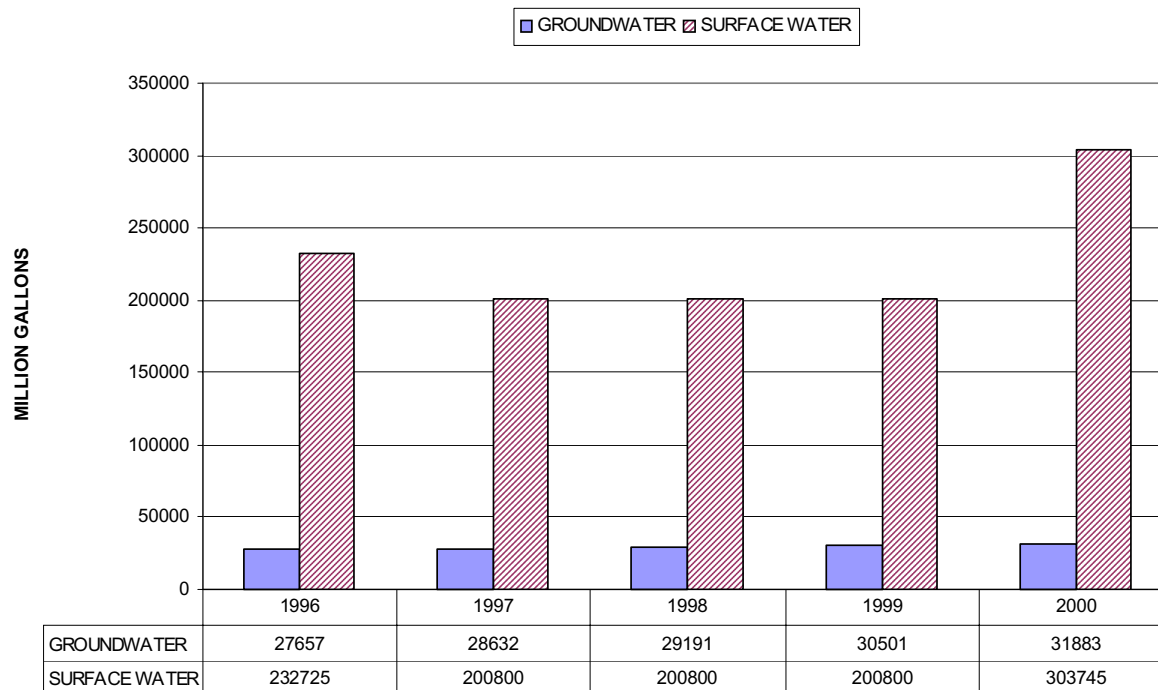
Amounts shown are in million gallons per year.

MORGAN COUNTY REGISTERED MAJOR WATER USE: 1996-2000



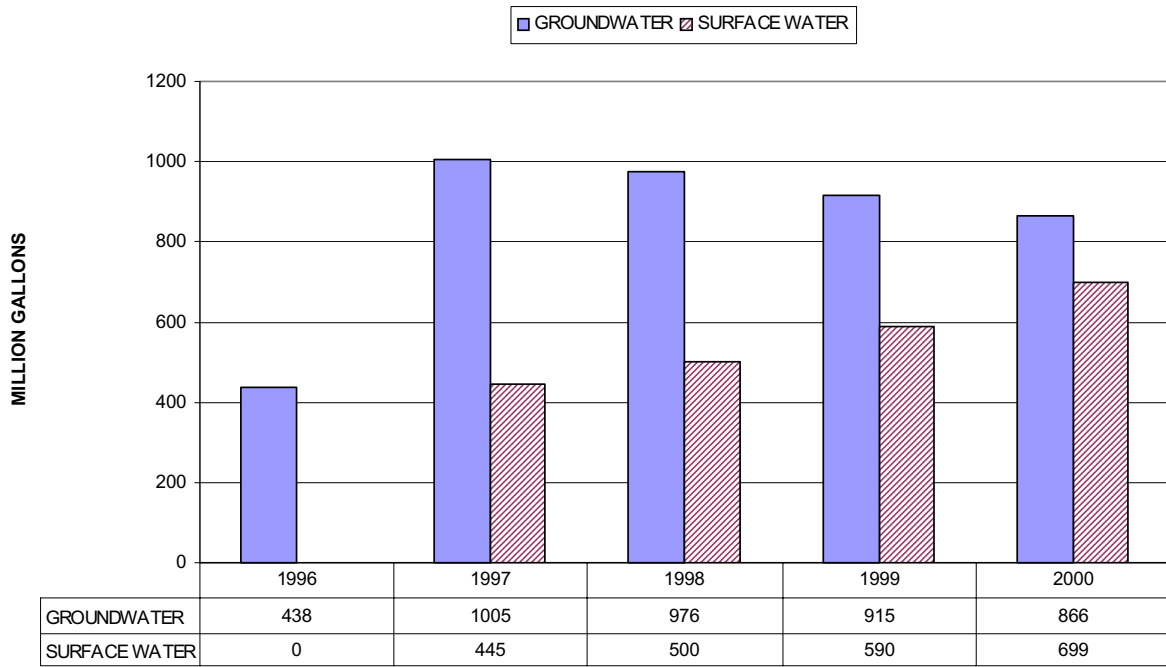
Amounts shown are in million gallons per year.

NEW MADRID COUNTY REGISTERED MAJOR WATER USE: 1996-2000



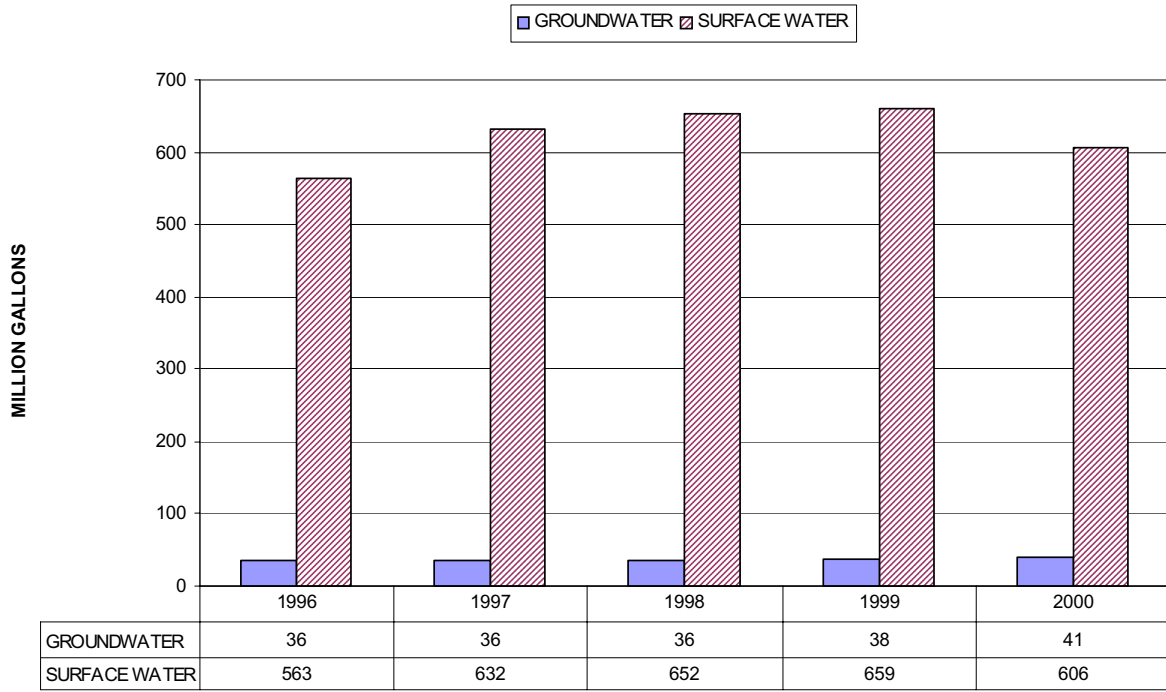
Amounts shown are in million gallons per year.

NEWTON COUNTY REGISTERED MAJOR WATER USE: 1996-2000



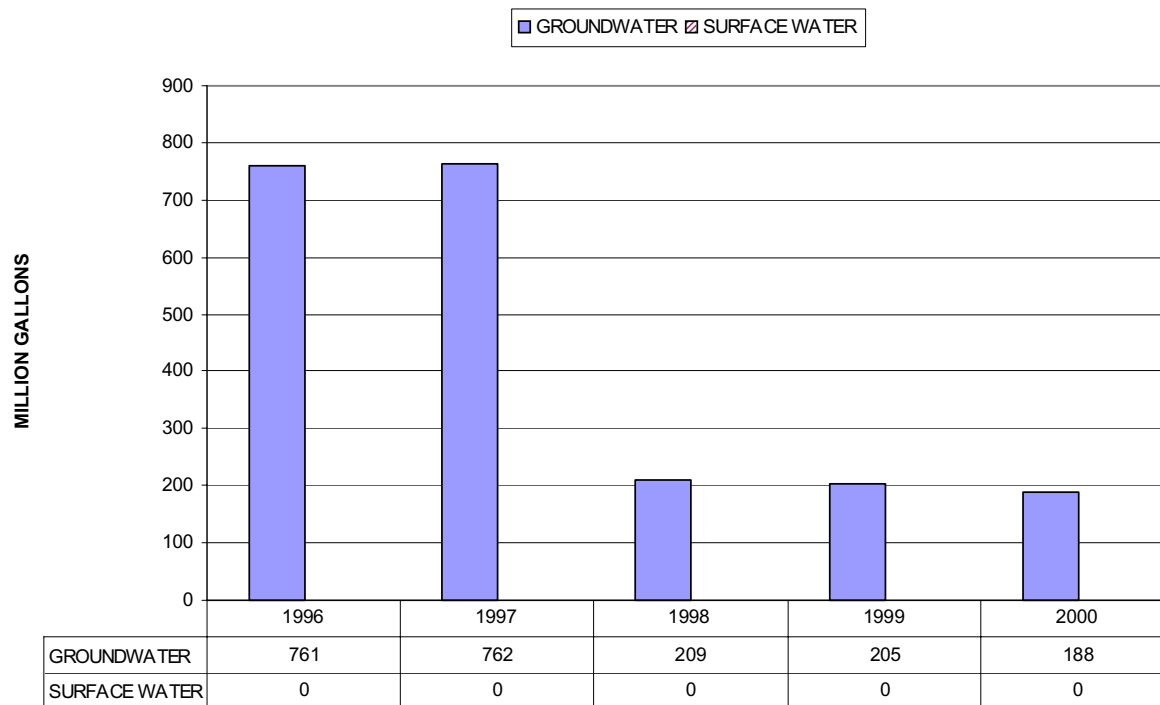
Amounts shown are in million gallons per year.

NODAWAY COUNTY REGISTERED MAJOR WATER USE: 1996-2000



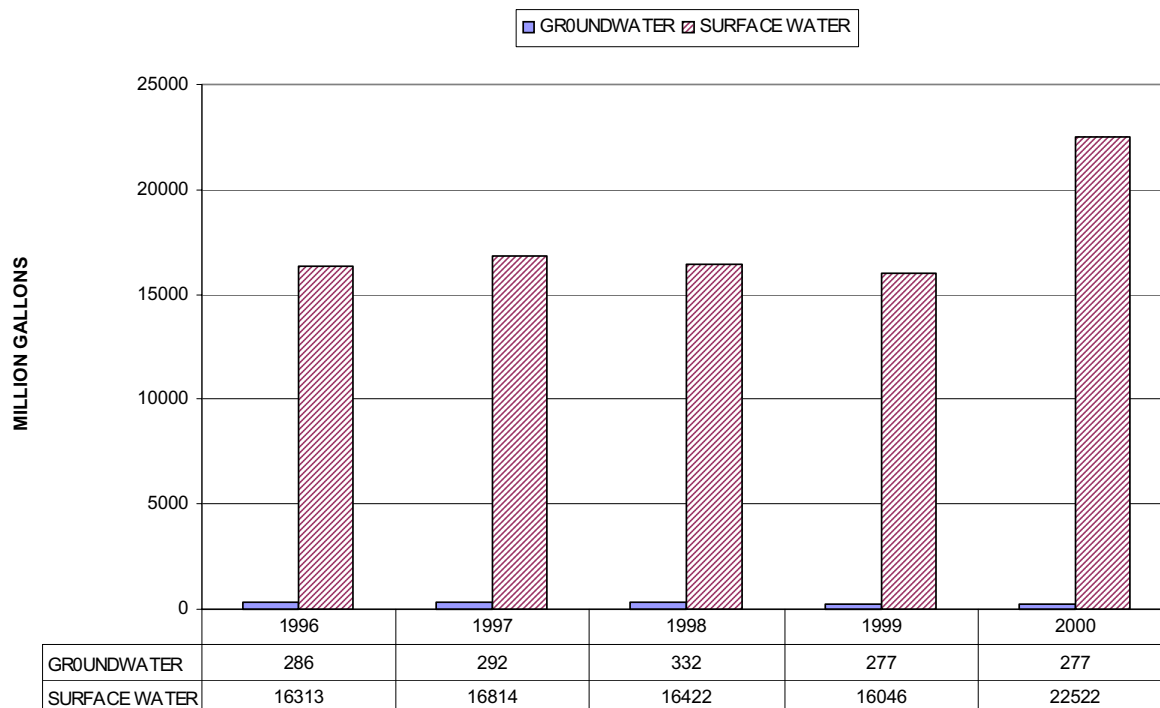
Amounts shown are in million gallons per year.

OREGON COUNTY REGISTERED MAJOR WATER USE: 1996-2000



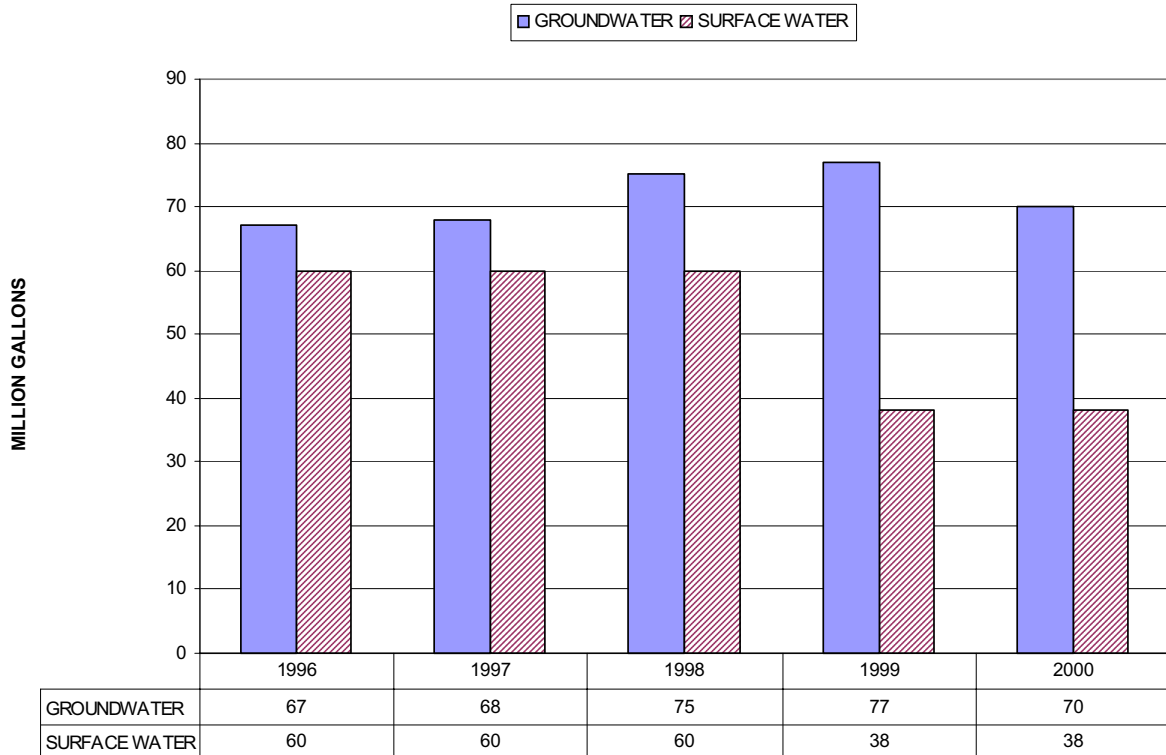
Amounts shown are in million gallons per year.

OSAGE COUNTY REGISTERED MAJOR WATER USE: 1996-2000



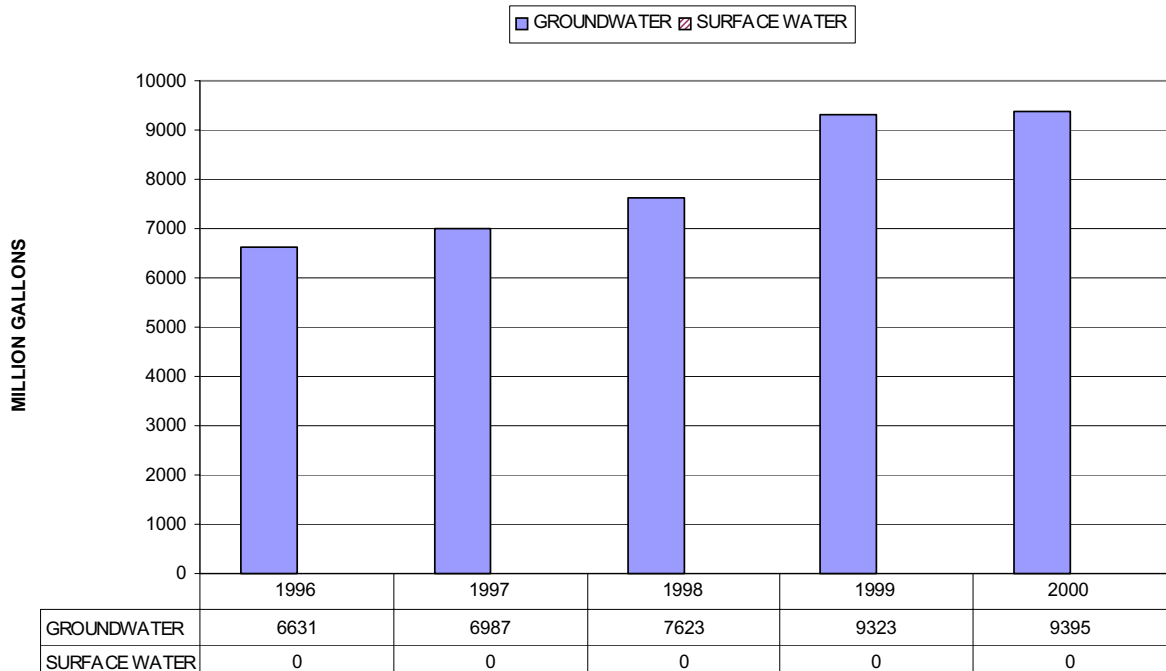
Amounts shown are in million gallons per year.

**OZARK COUNTY REGISTERED MAJOR WATER USE: 1996-2000**



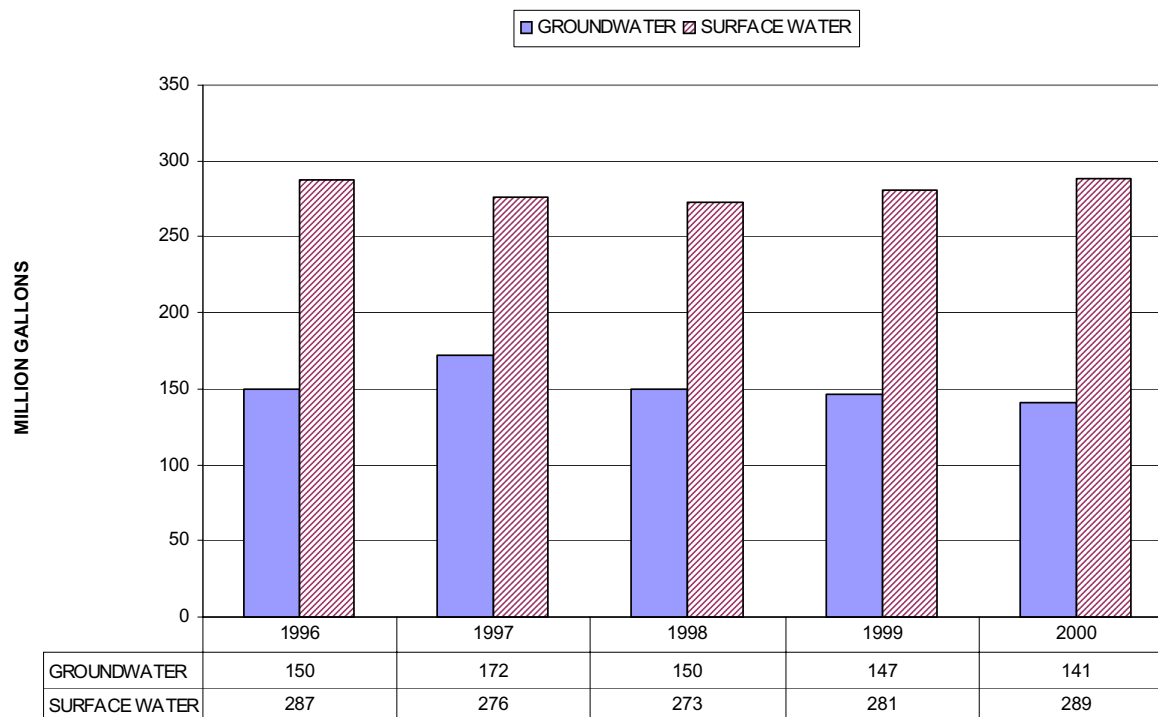
Amounts shown are in million gallons per year.

**PEMISCOT COUNTY REGISTERED MAJOR WATER USE: 1996-2000**



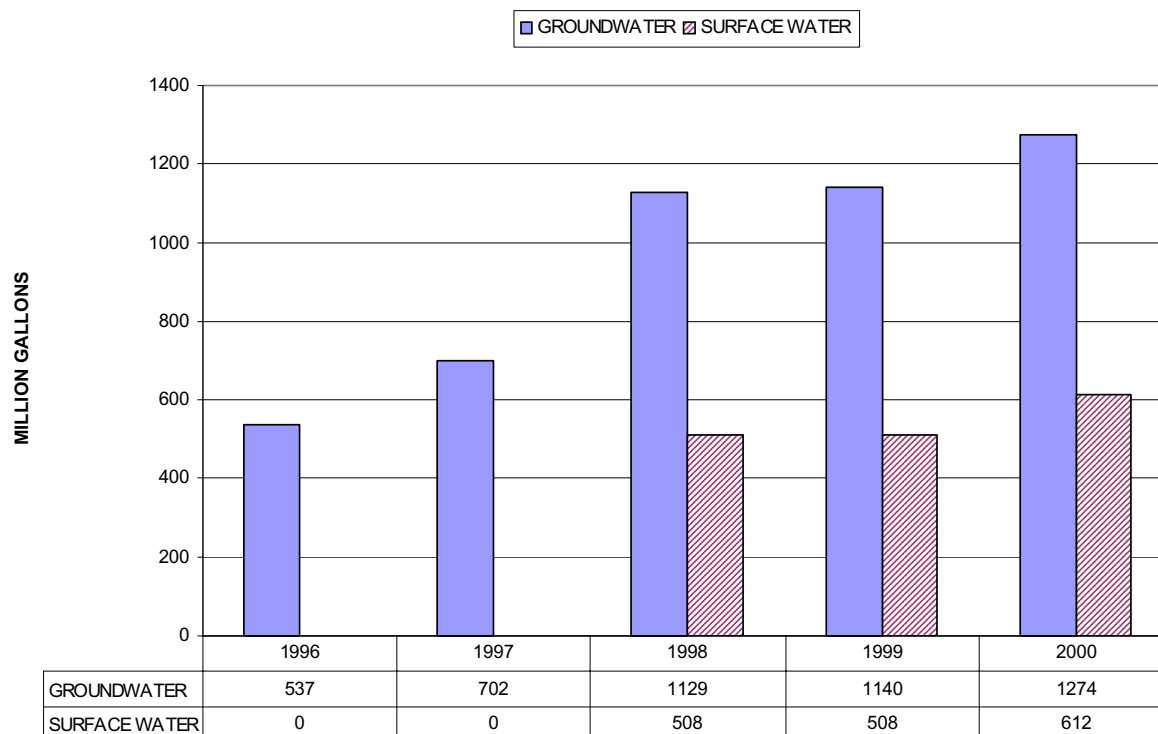
Amounts shown are in million gallons per year.

PERRY COUNTY REGISTERED MAJOR WATER USE: 1996-2000



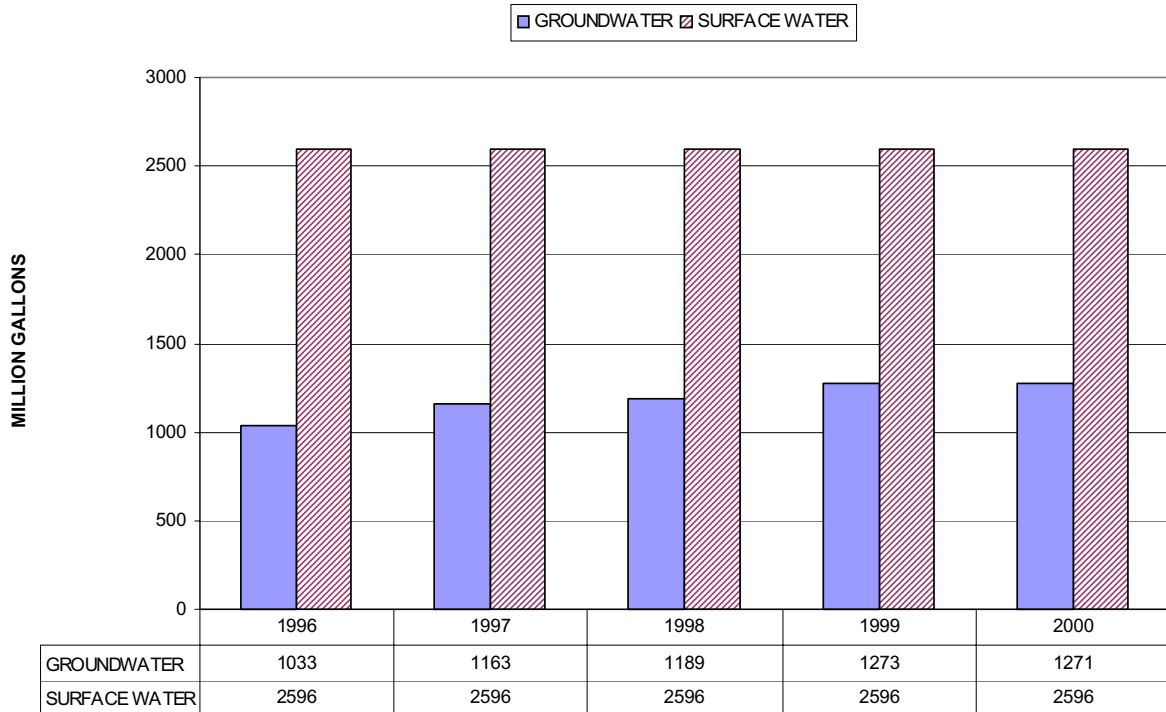
Amounts shown are in million gallons per year.

PETTIS COUNTY REGISTERED MAJOR WATER USE: 1996-2000



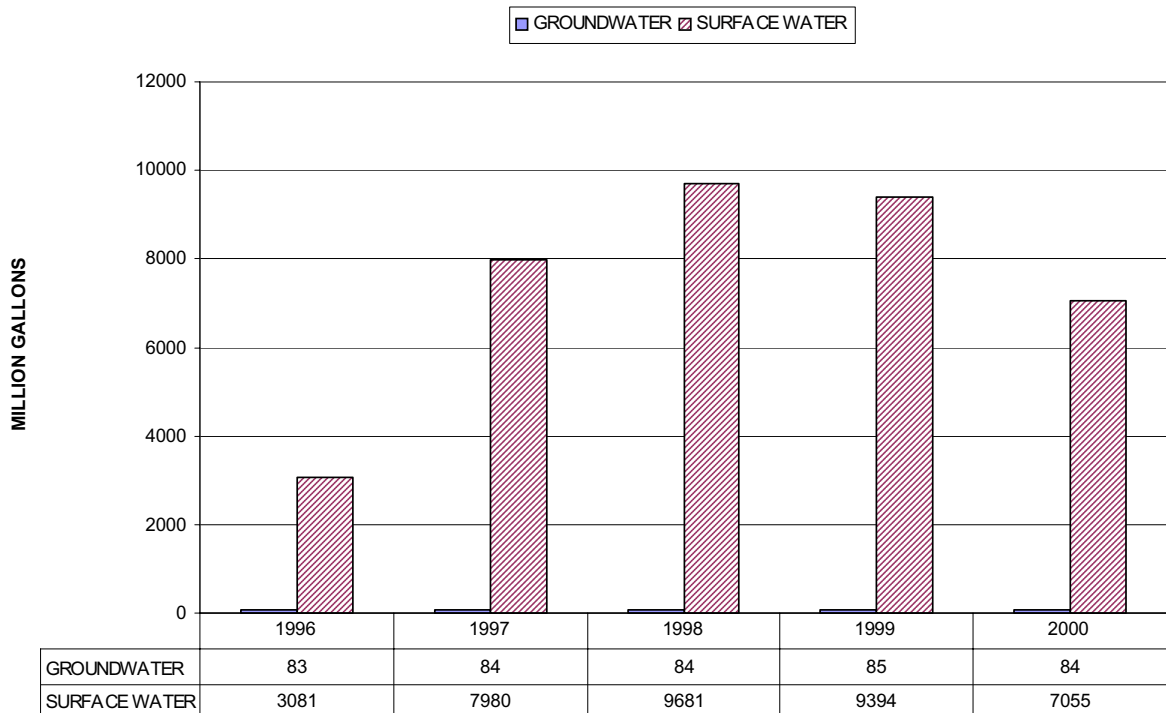
Amounts shown are in million gallons per year.

PHELPS COUNTY REGISTERED MAJOR WATER USE: 1996-2000



Amounts shown are in million gallons per year.

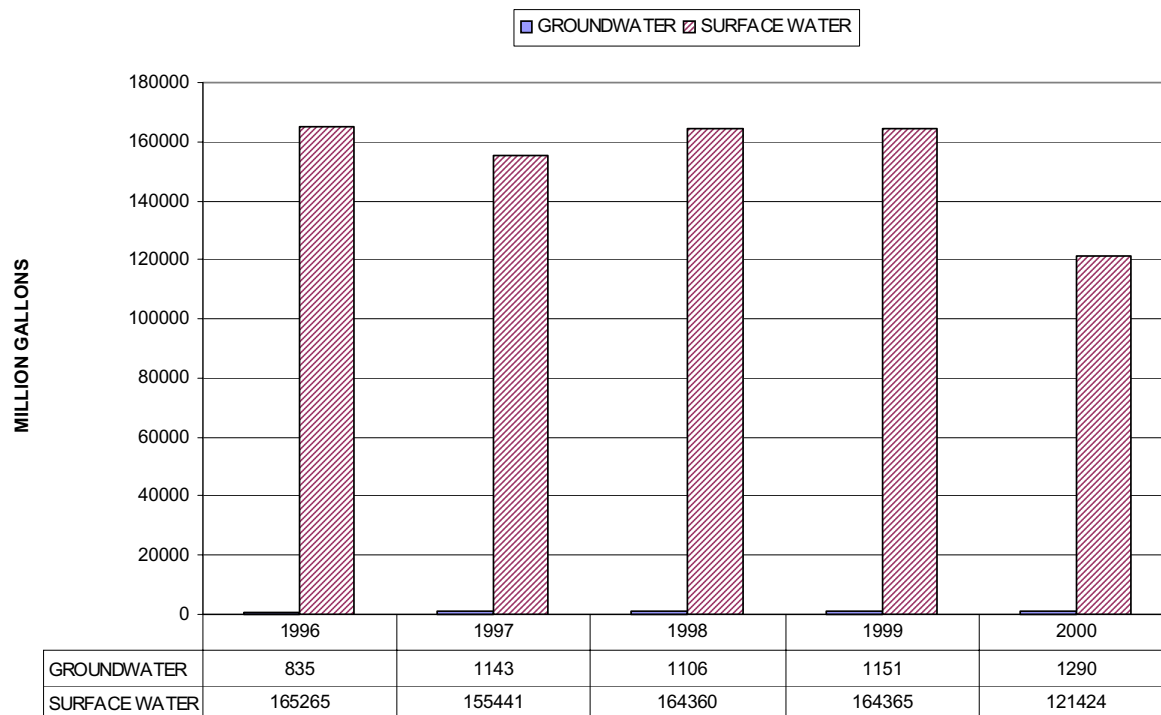
PIKE COUNTY REGISTERED MAJOR WATER USE: 1996-2000



Amounts shown are in million gallons per year.

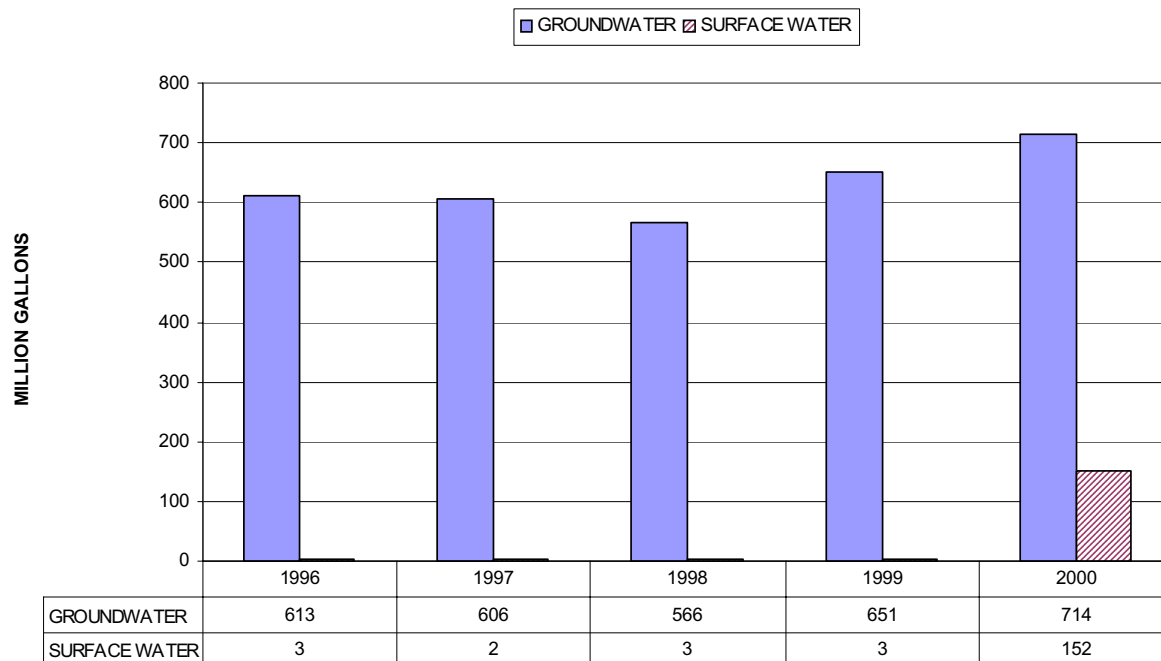


PLATTE COUNTY REGISTERED MAJOR WATER USE: 1996-2000



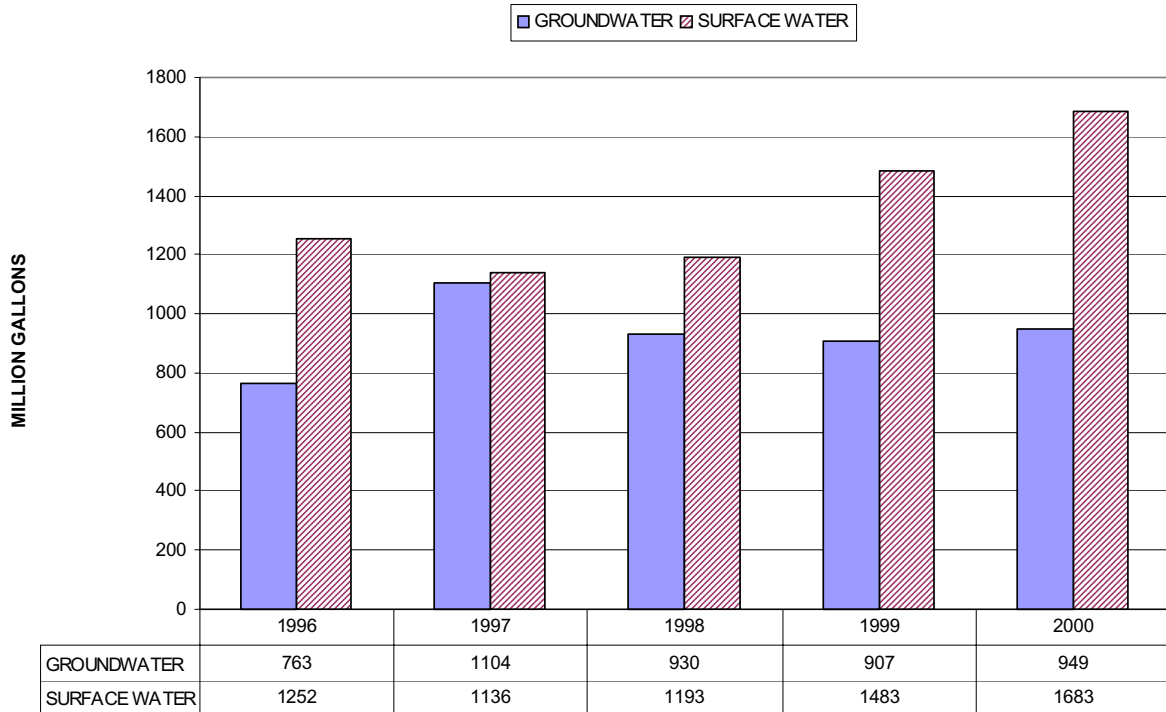
Amounts shown are in million gallons per year.

POLK COUNTY REGISTERED MAJOR WATER USE: 1996-2000



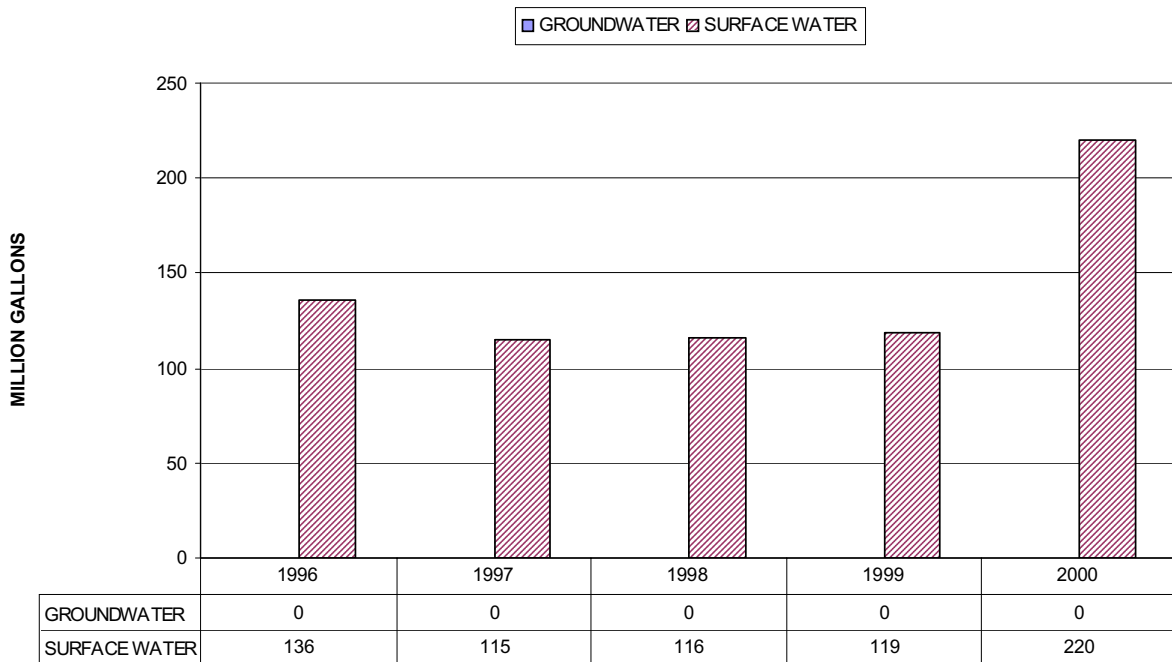
Amounts shown are in million gallons per year.

PULASKI COUNTY REGISTERED MAJOR WATER USE: 1996-2000



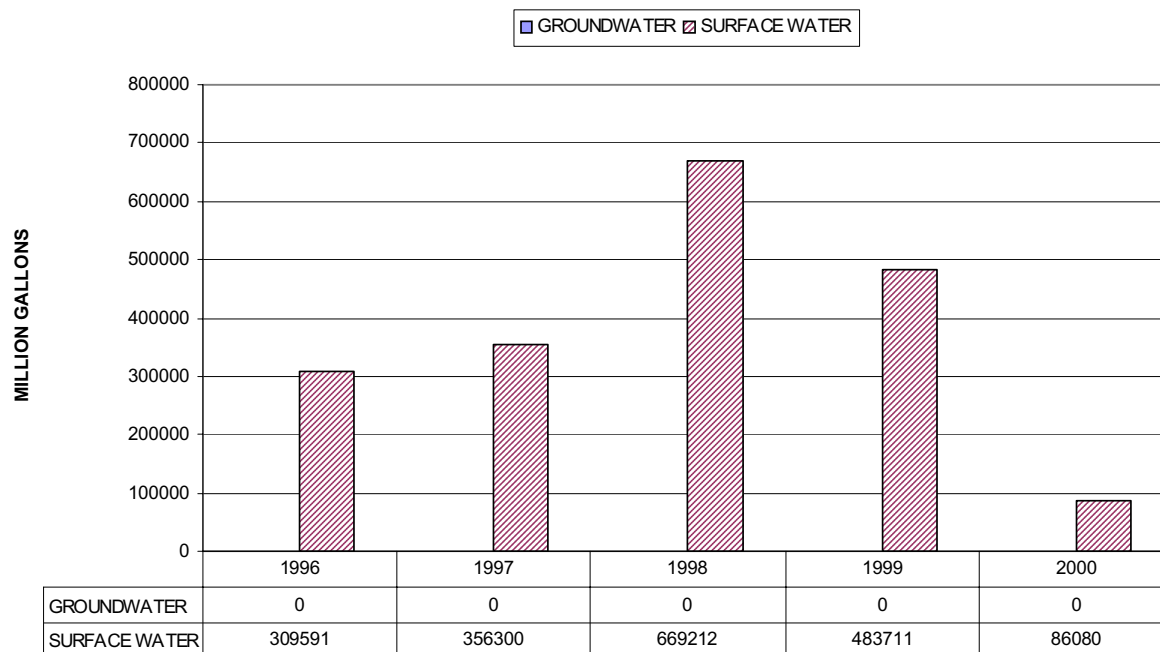
Amounts shown are in million gallons per year.

PUTNAM COUNTY REGISTERED MAJOR WATER USE: 1996-2000



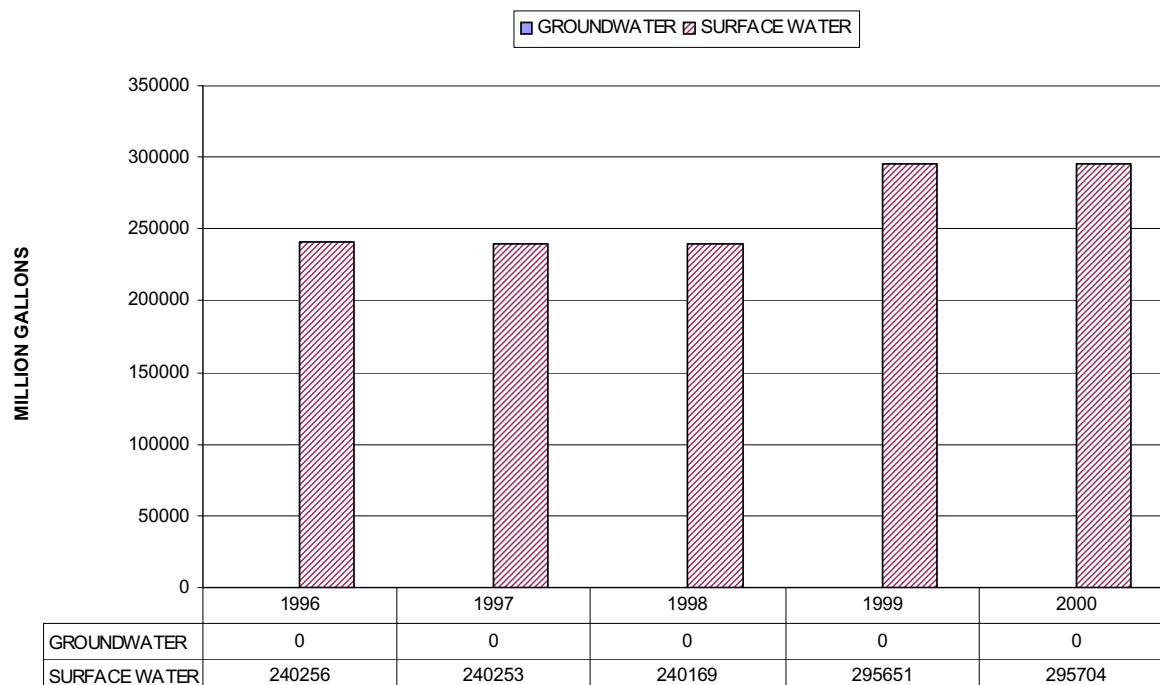
Amounts shown are in million gallons per year.

**RALLS COUNTY REGISTERED MAJOR WATER USE: 1996-2000**



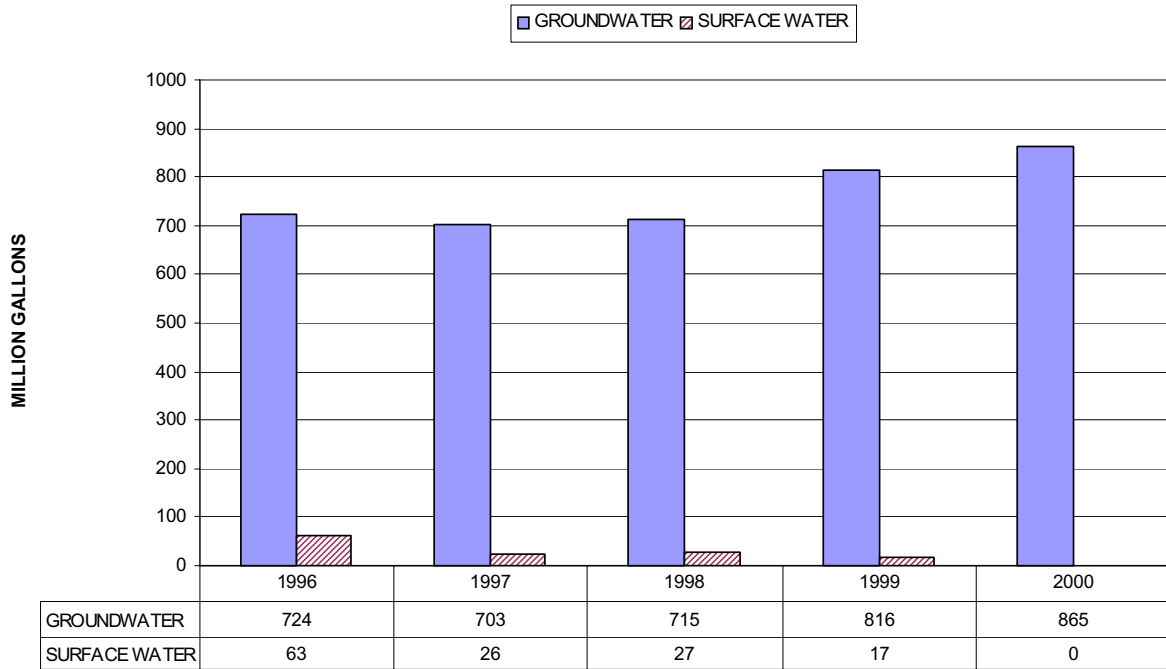
Amounts shown are in million gallons per year.

**RANDOLPH COUNTY REGISTERED MAJOR WATER USE: 1996-2000**



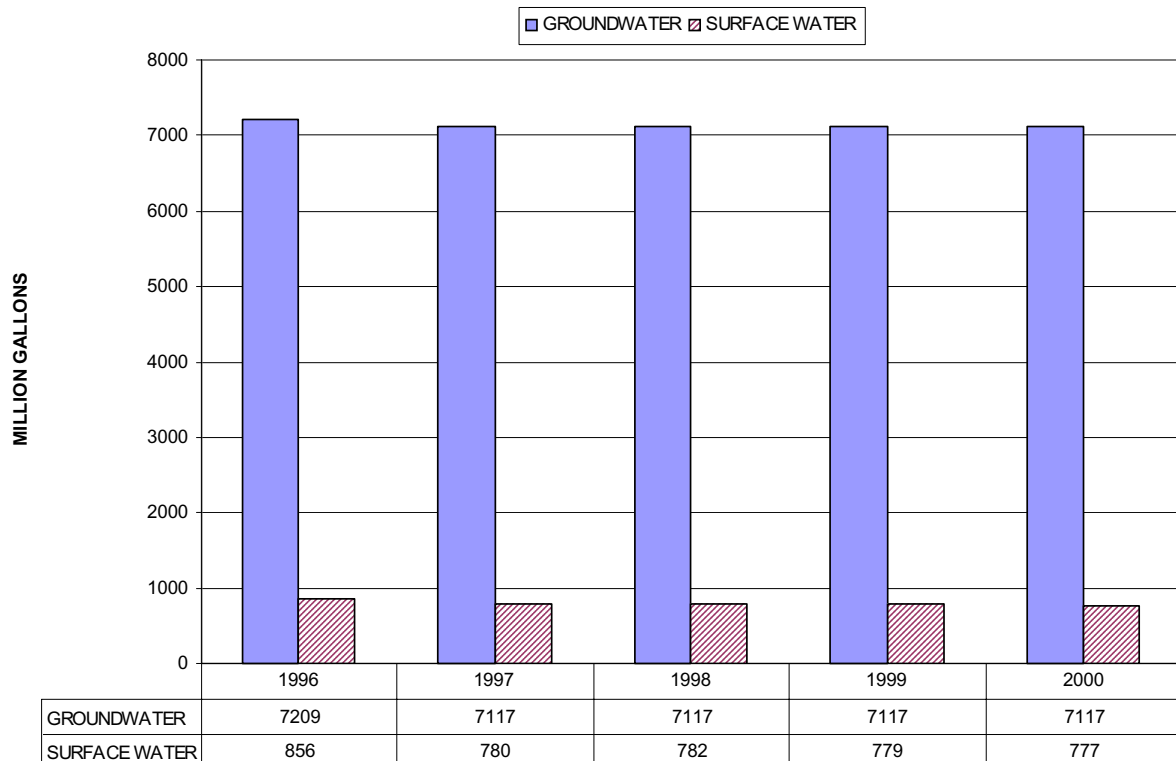
Amounts shown are in million gallons per year.

RAY COUNTY REGISTERED MAJOR WATER USE: 1996-2000



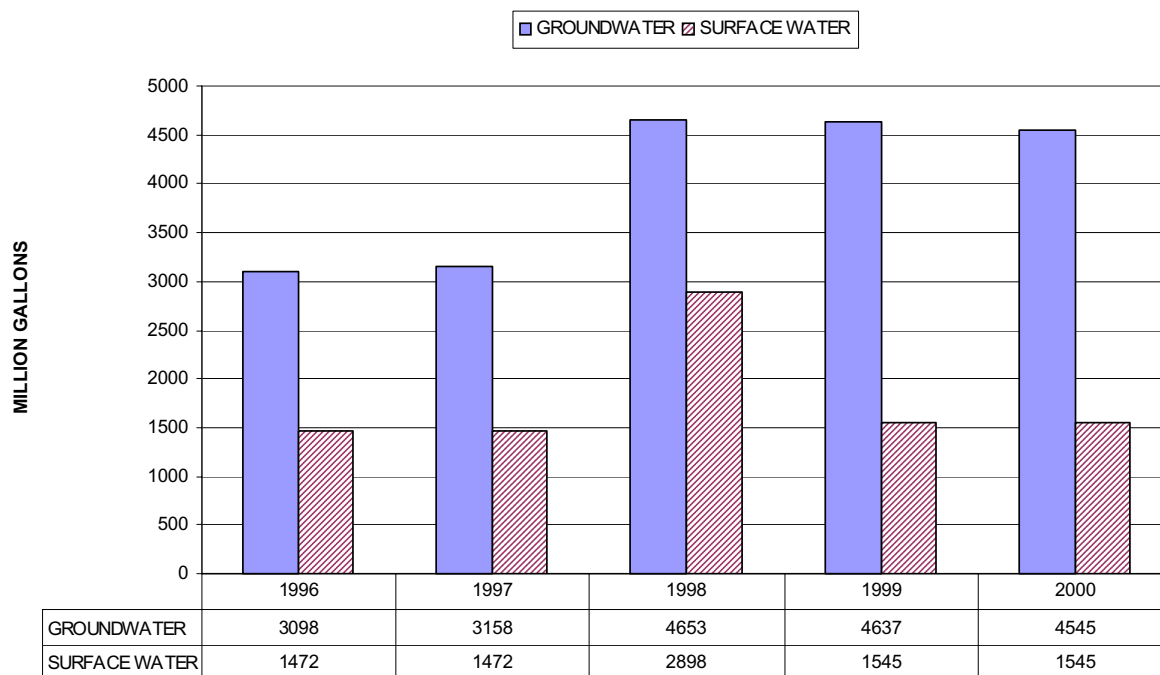
Amounts shown are in million gallons per year.

REYNOLDS COUNTY REGISTERED MAJOR WATER USE: 1996-2000



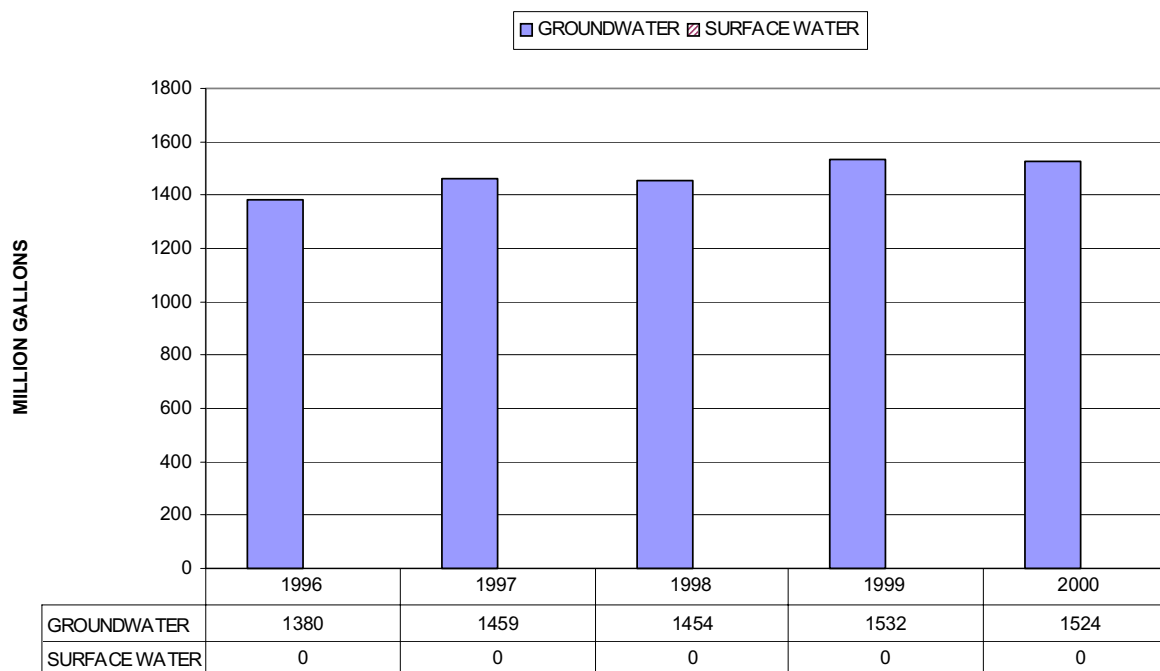
Amounts shown are in gallons per year.

**RIPLEY COUNTY REGISTERED MAJOR WATER USE: 1996-2000**



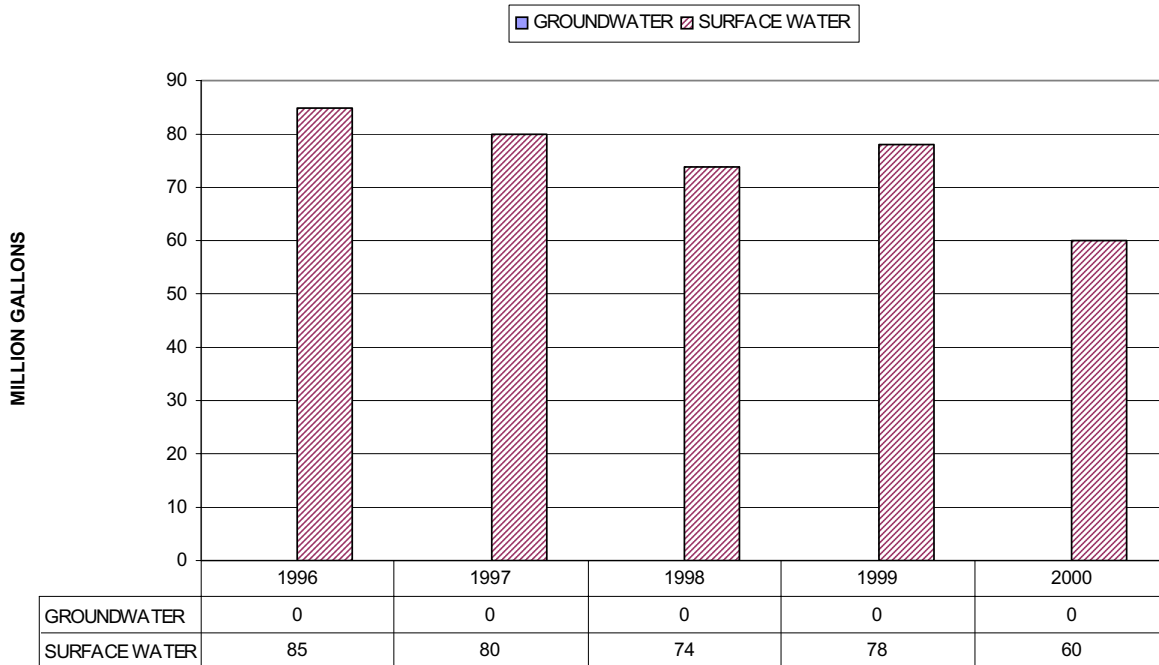
Amounts shown are in million gallons per year.

**SALINE COUNTY REGISTERED MAJOR WATER USE: 1996-2000**



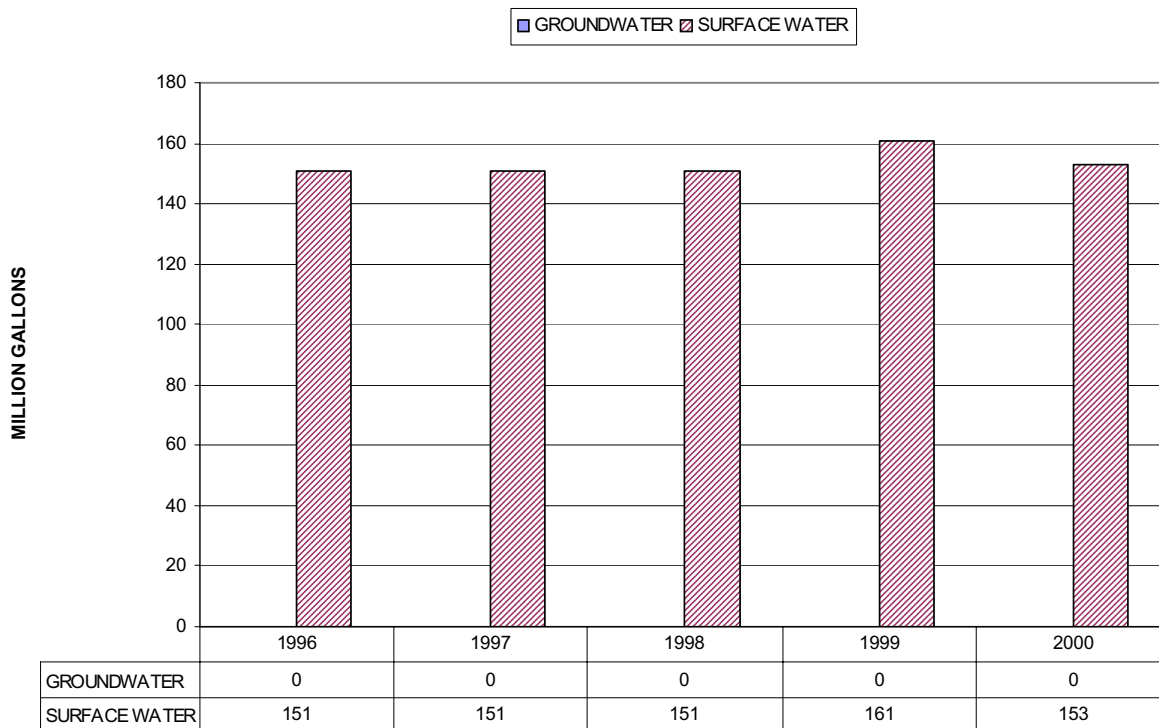
Amounts shown are in million gallons per year.

SCHUYLER COUNTY REGISTERED MAJOR WATER USE: 1996-2000



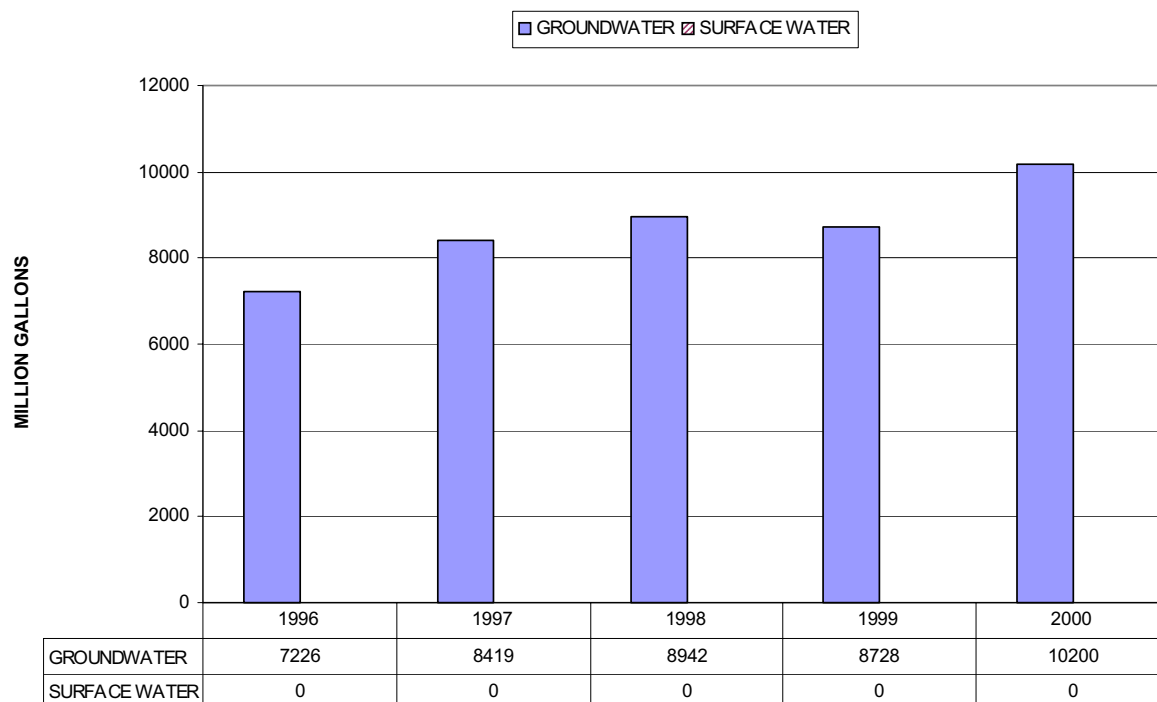
Amounts shown are in million gallons per year.

SCOTLAND COUNTY REGISTERED MAJOR WATER USE: 1996-2000



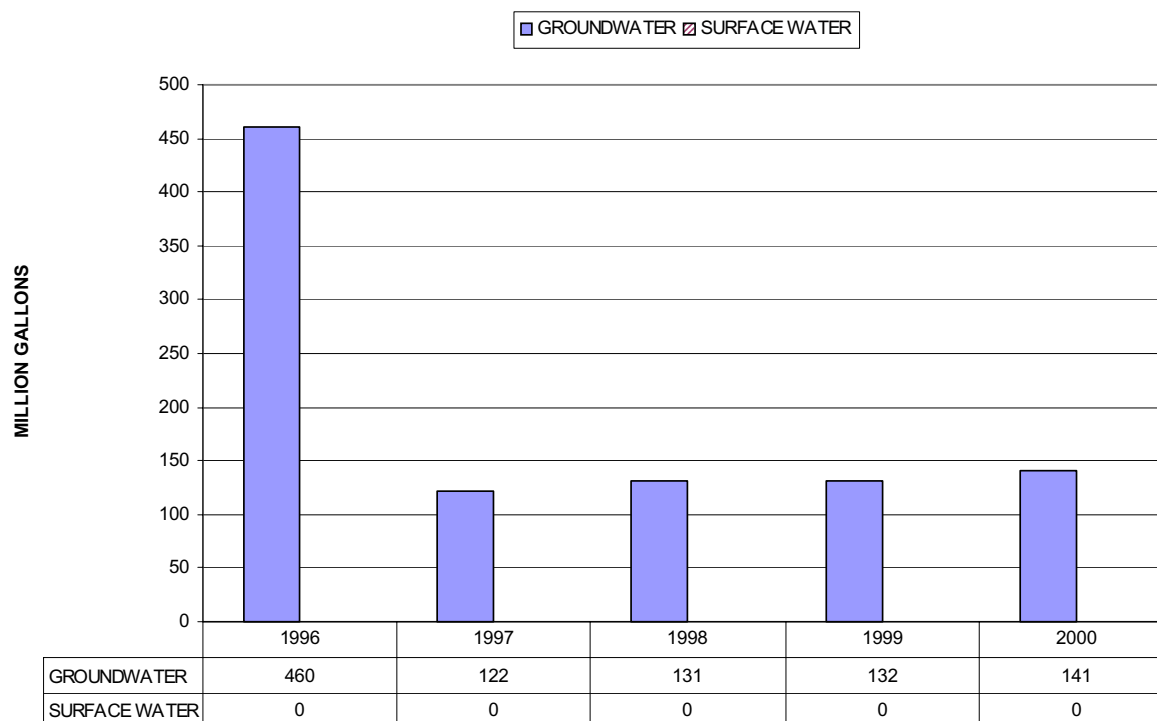
Amounts shown are in million gallons per year.

SCOTT COUNTY REGISTERED MAJOR WATER USE: 1996-2000



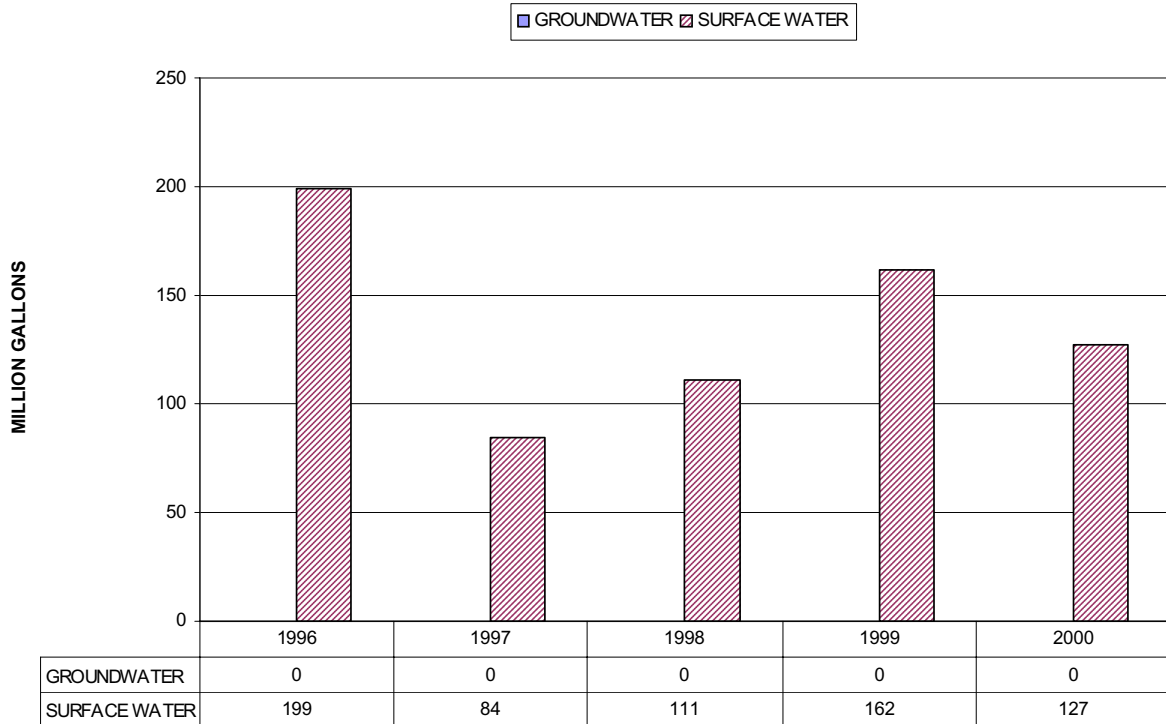
Amounts are shown in million gallons per year.

SHANNON COUNTY REGISTERED MAJOR WATER USE: 1996-2000



Amounts shown are in million gallons per year.

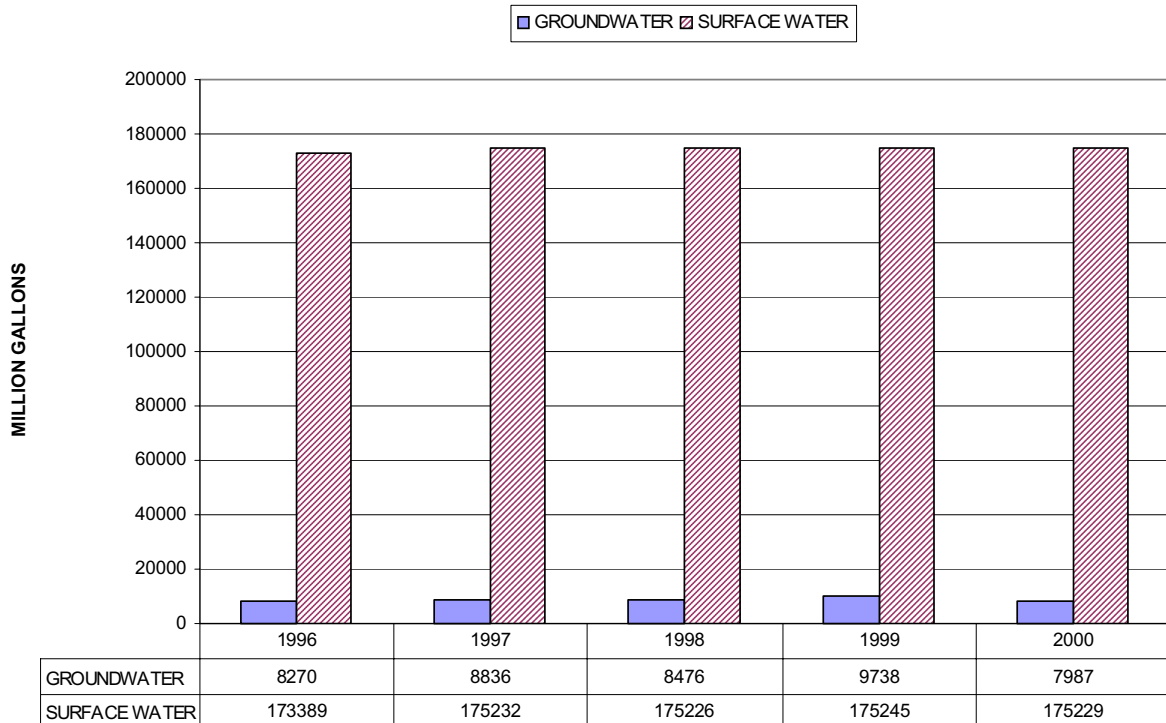
## SHELBY COUNTY REGISTERED MAJOR WATER USE: 1996-2000



Amounts shown are in million gallons per year.

*Major Water User Graphs by County*

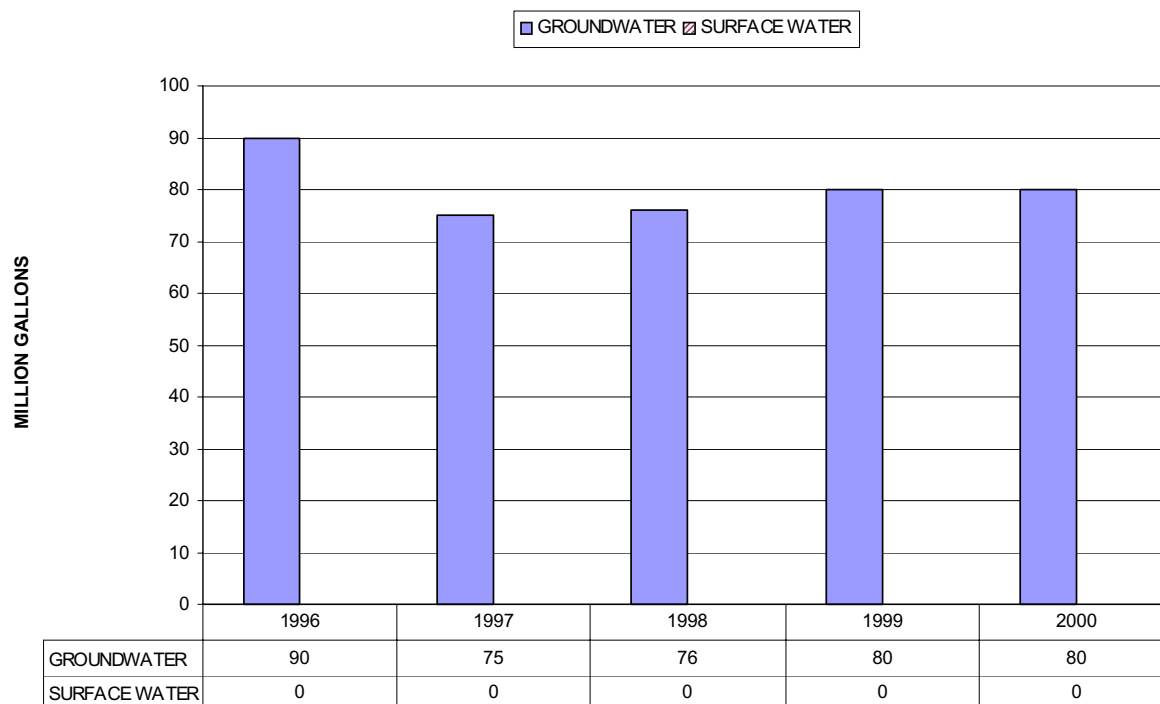
## ST. CHARLES COUNTY REGISTERED MAJOR WATER USE: 1996-2000



Amounts shown are in million gallons per year.

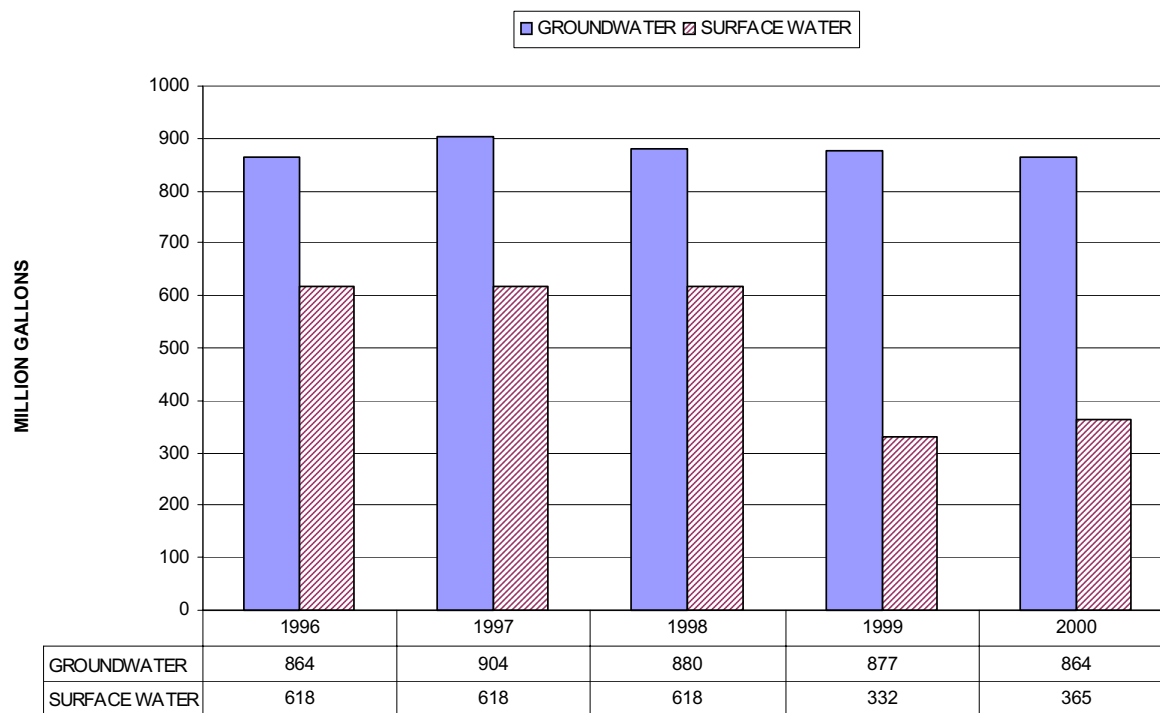


ST. CLAIR COUNTY REGISTERED MAJOR WATER USE: 1996-2000



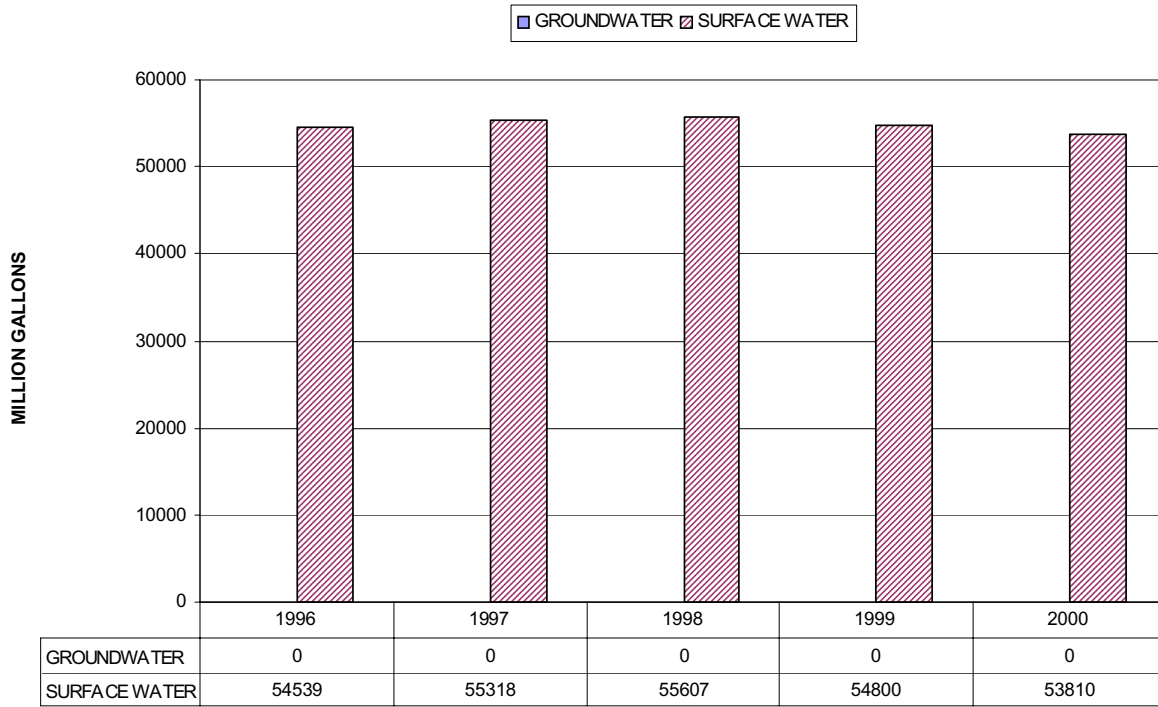
Amounts shown are in million gallons per year.

ST. FRANCOIS COUNTY REGISTERED MAJOR WATER USE: 1996-2000



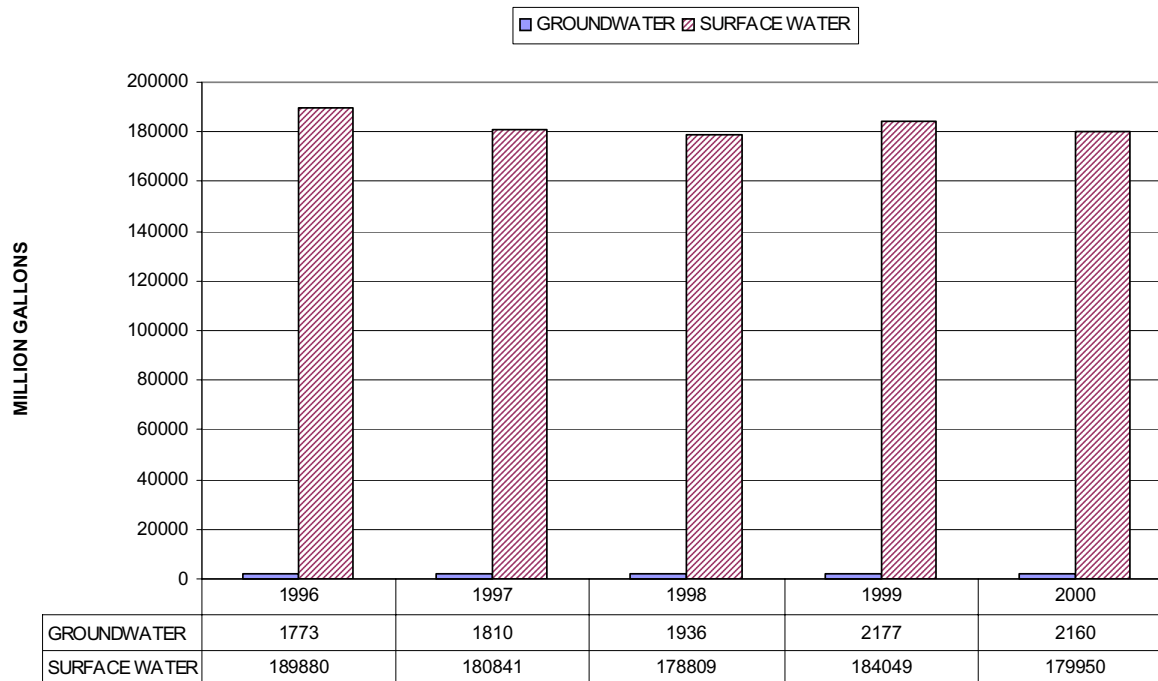
Amounts shown are in million gallons per year.

ST. LOUIS CITY REGISTERED MAJOR WATER USE: 1996-2000



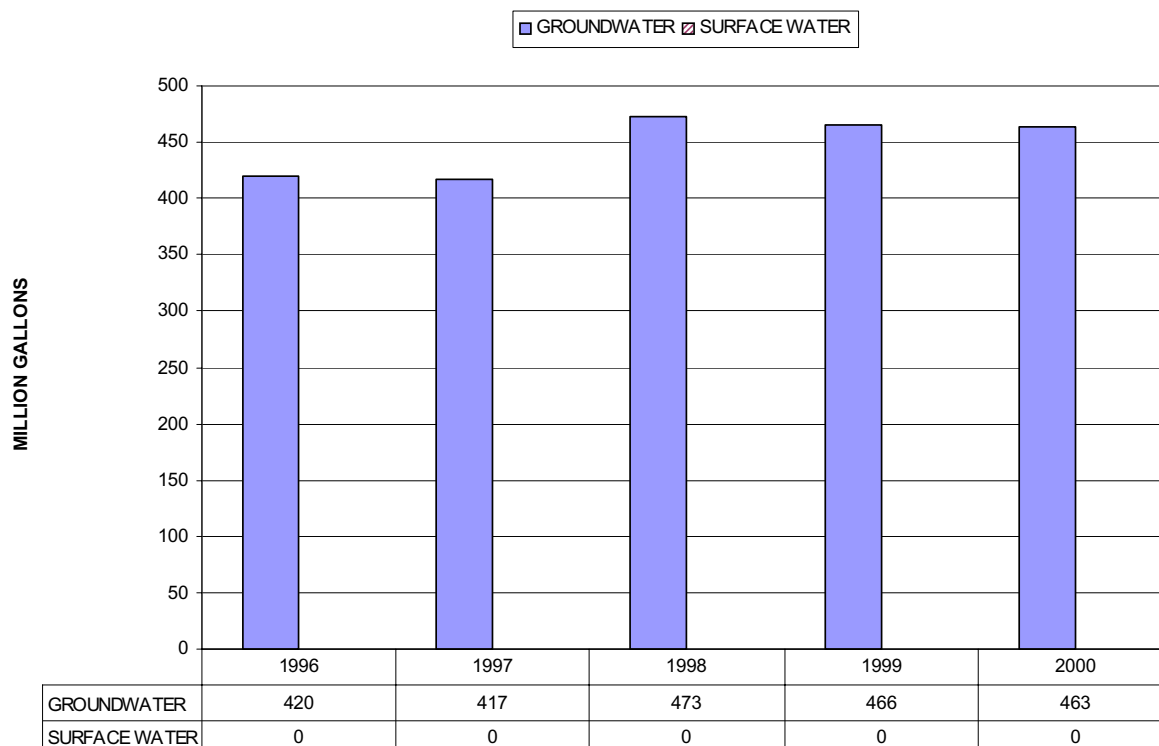
Amounts shown are in million gallons per year.

ST. LOUIS COUNTY REGISTERED MAJOR WATER USE: 1996-2000



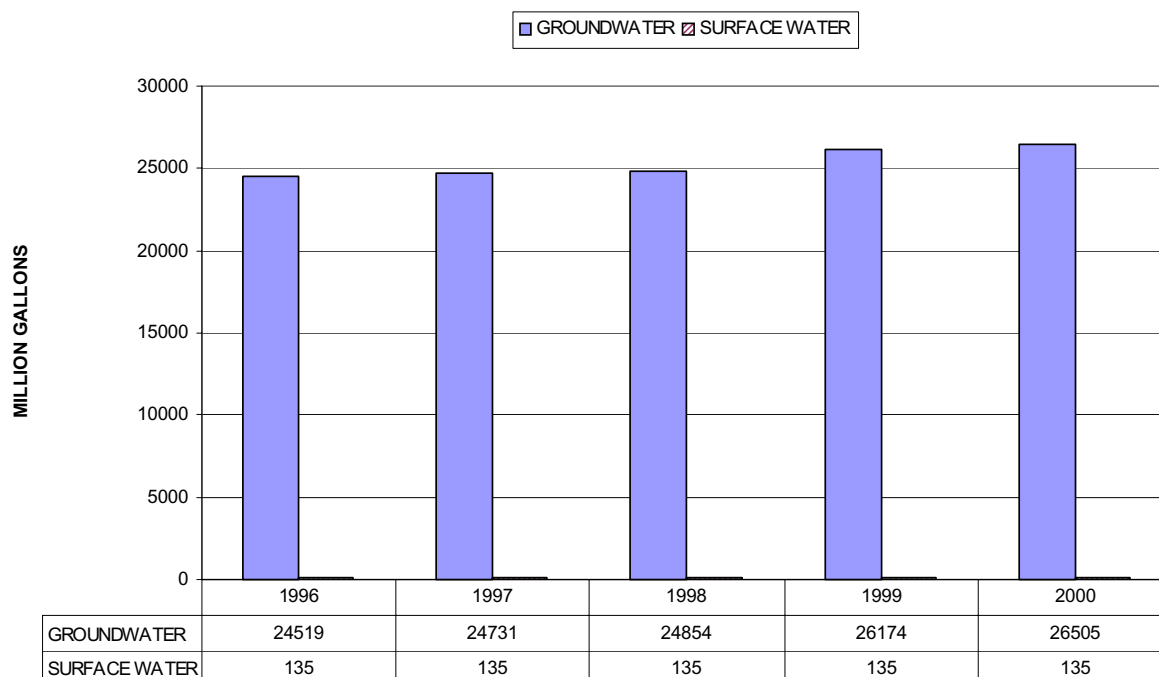
Amounts shown are in million gallons per year.

STE. GENEVIEVE COUNTY REGISTERED MAJOR WATER USE: 1996-2000



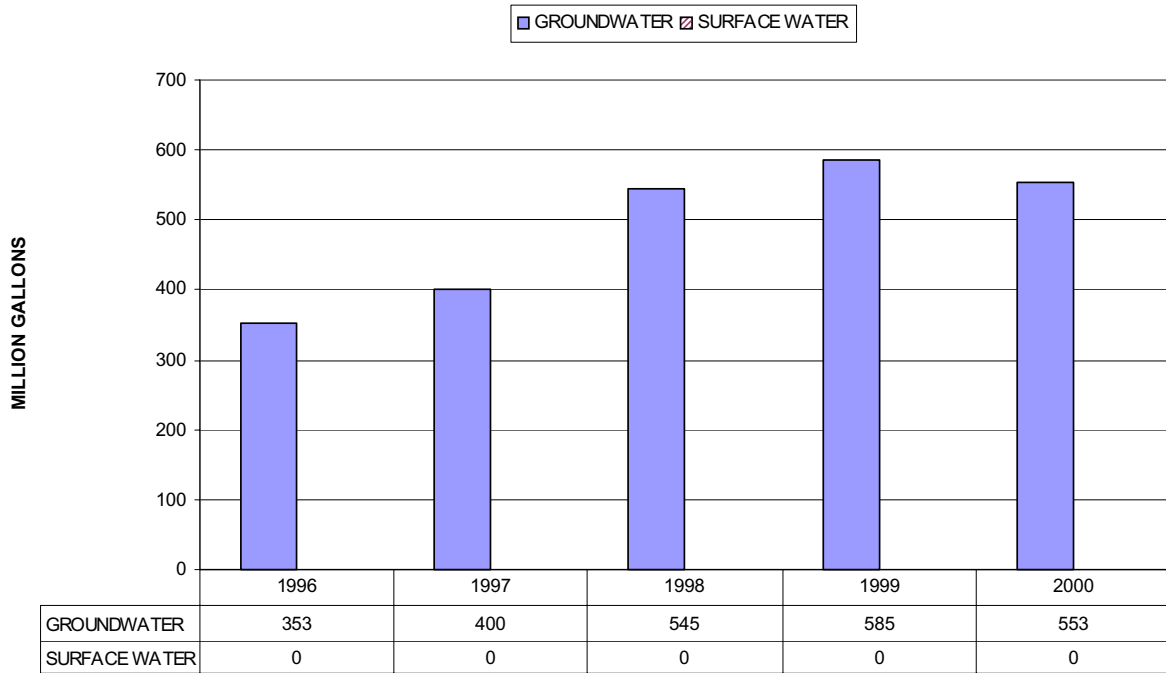
Amounts shown are in million gallons per year.

STODDARD COUNTY REGISTERED MAJOR WATER USE: 1996-2000



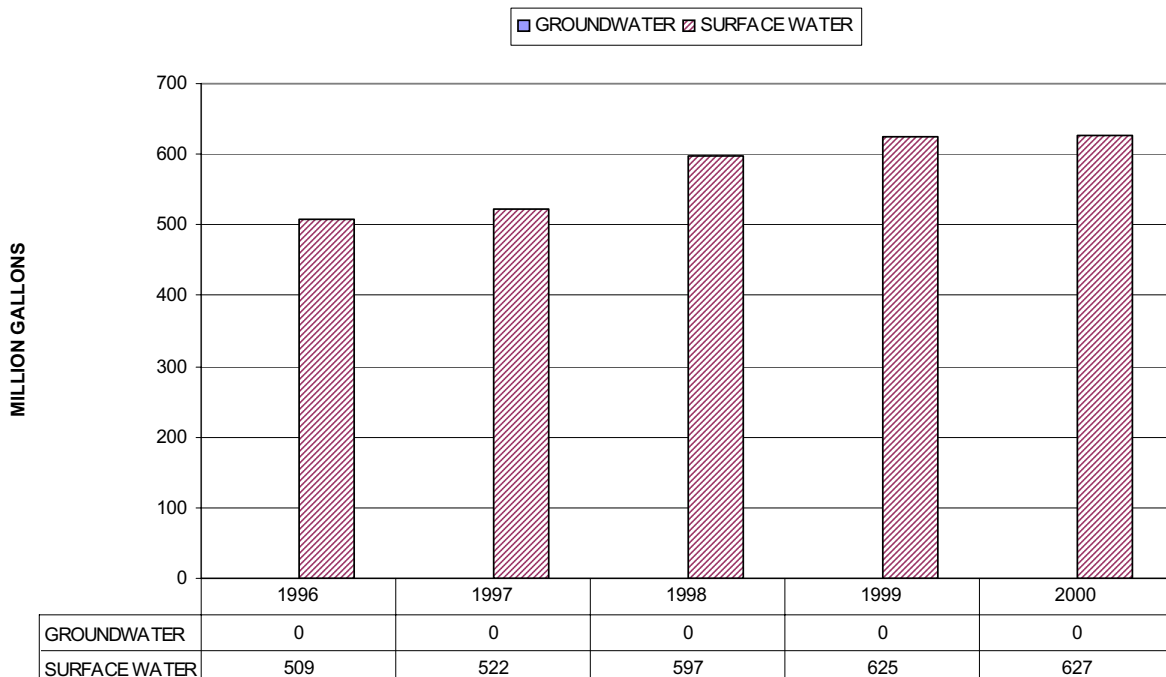
Amounts shown are in million gallons per year.

STONE COUNTY REGISTERED MAJOR WATER USE: 1996-2000



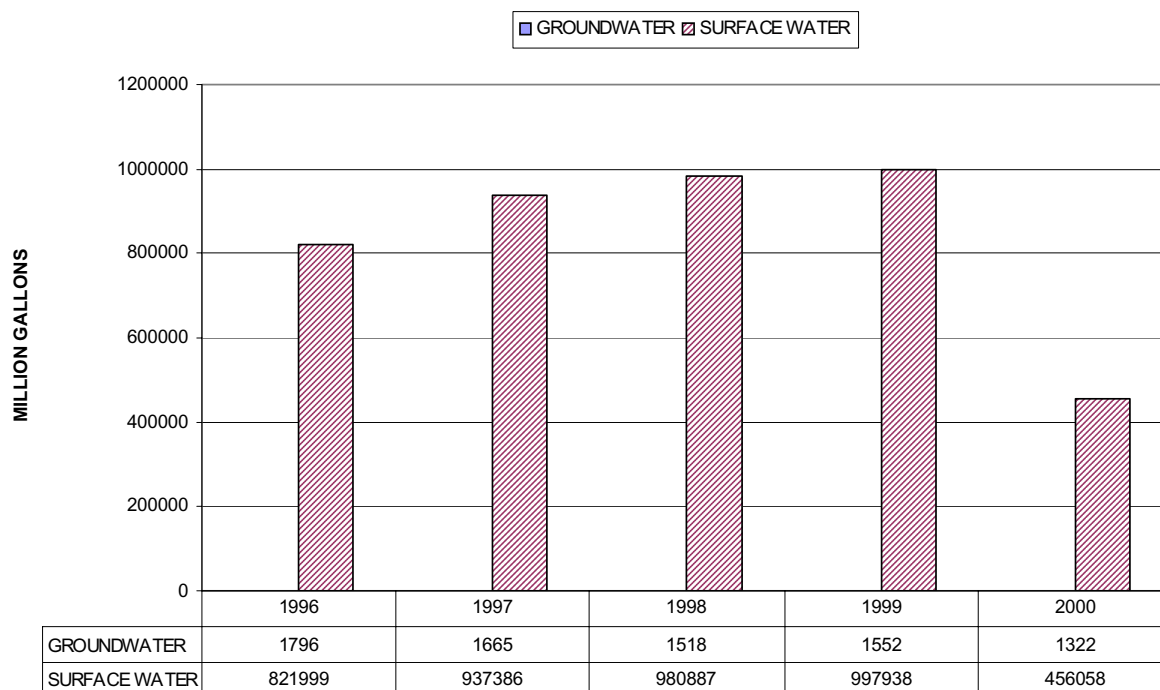
Amounts shown are in million gallons per year.

SULLIVAN COUNTY REGISTERED MAJOR WATER USE: 1996-2000



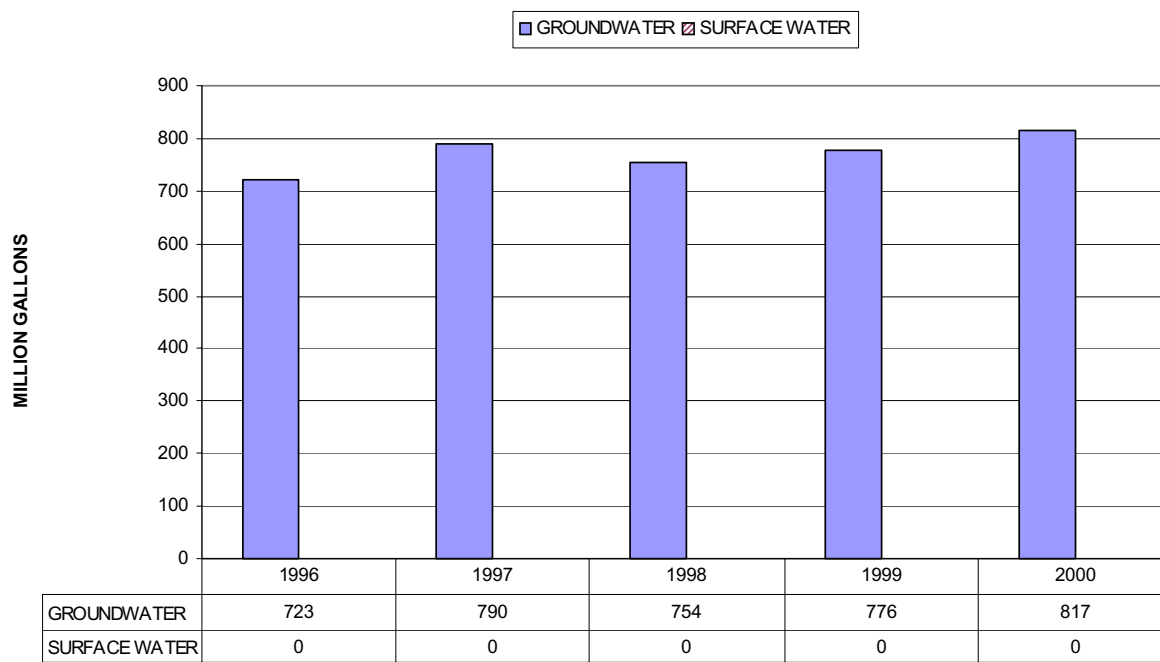
Amounts shown are in million gallons per year.

TANEY COUNTY REGISTERED MAJOR WATER USE: 1996-2000



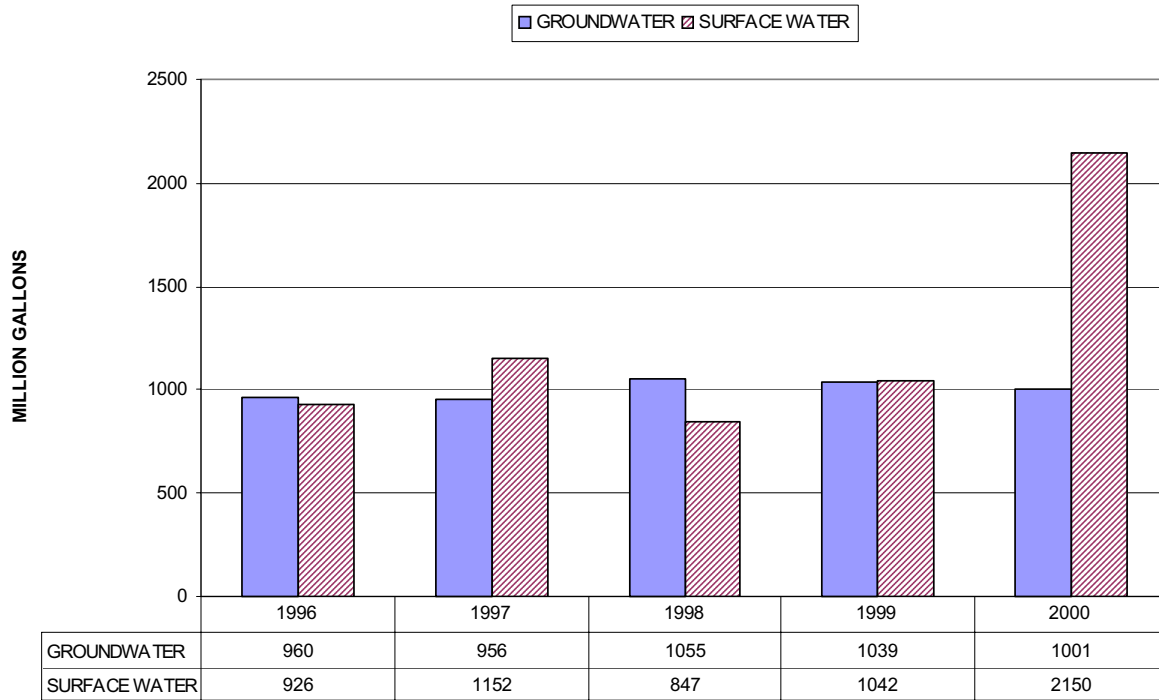
Amounts shown are in million gallons per year. Groundwater amounts are too small to be visible on graph.

TEXAS COUNTY REGISTERED MAJOR WATER USE: 1996-2000



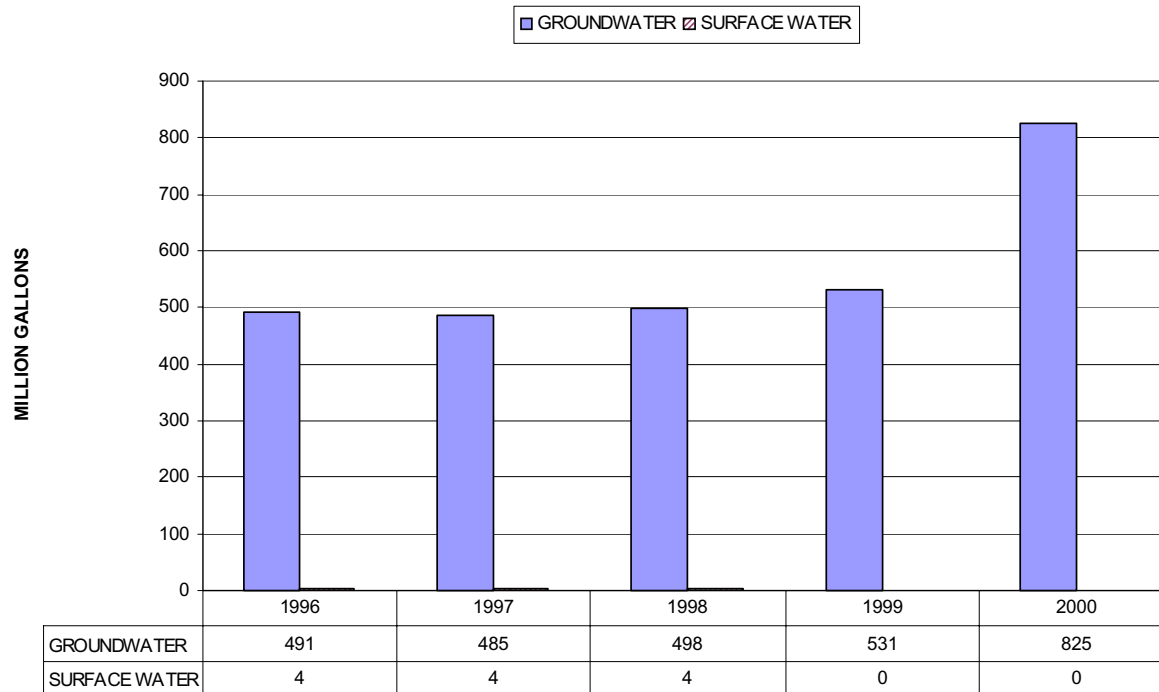
Amounts shown are in million gallons per year.

VERNON COUNTY REGISTERED MAJOR WATER USE: 1996-2000



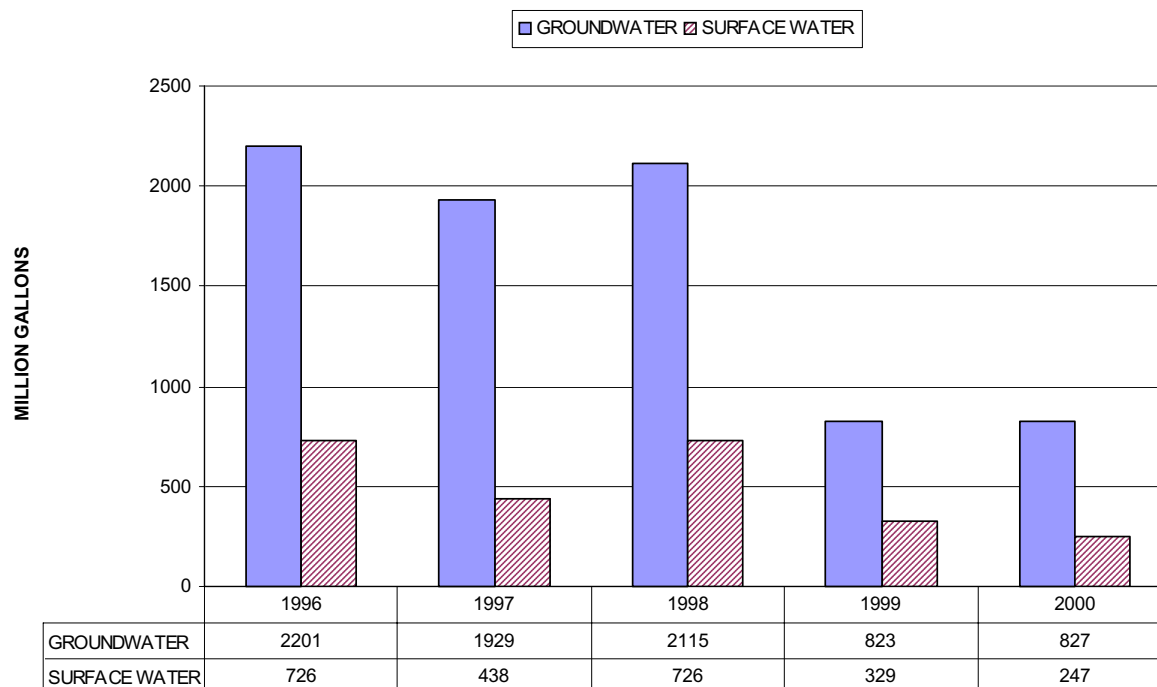
Amounts shown are in million gallons per year.

WARREN COUNTY REGISTERED MAJOR WATER USE: 1996-2000



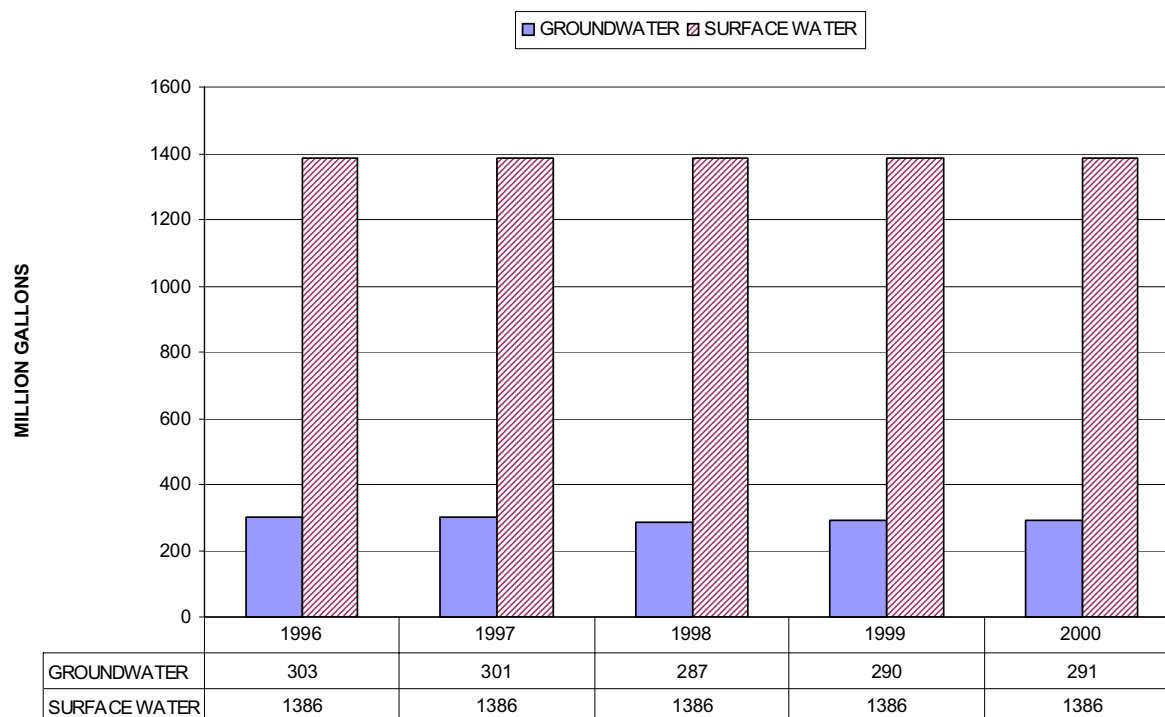
Amounts shown are in million gallons per year.

WASHINGTON COUNTY REGISTERED MAJOR WATER USE: 1996-2000



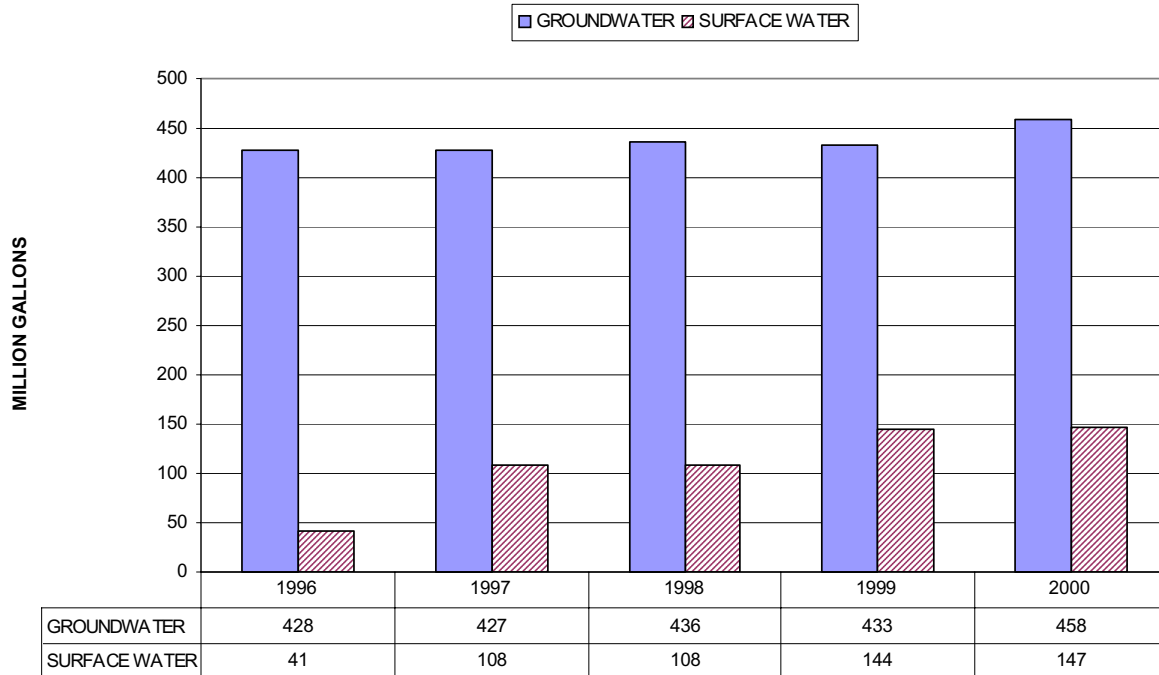
Amounts shown are in million gallons per year.

WAYNE COUNTY REGISTERED MAJOR WATER USE: 1996-2000



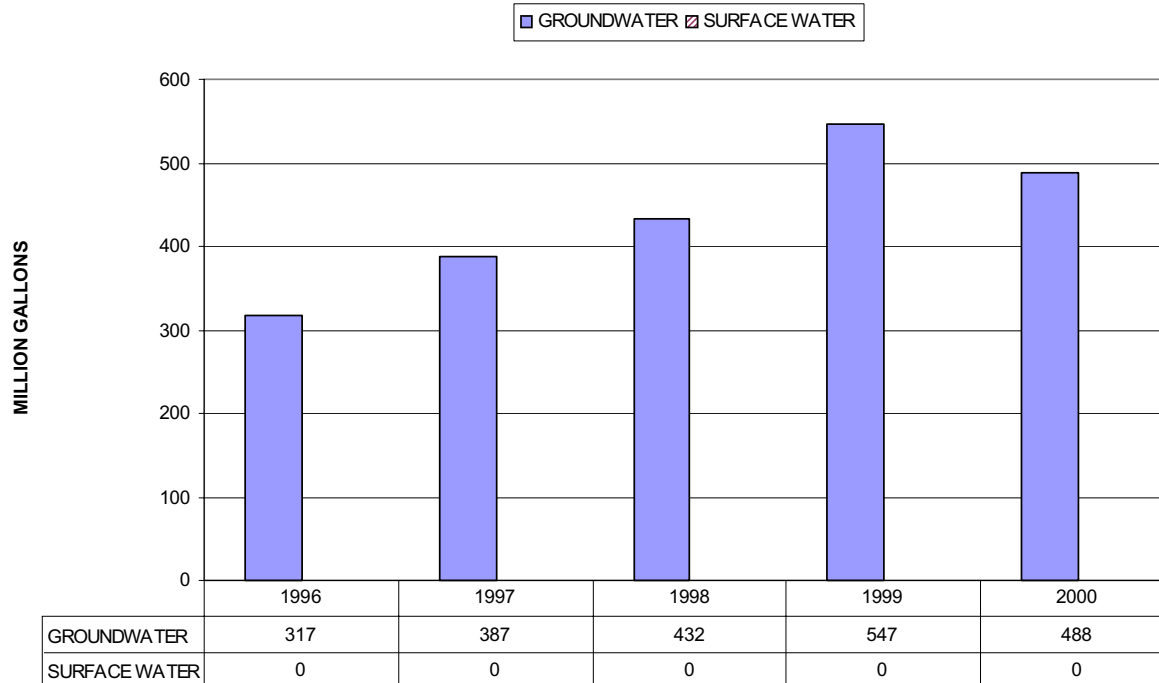
Amounts shown are in million gallons per year.

WEBSTER COUNTY REGISTERED MAJOR WATER USE: 1996-2000



Amounts shown are in million gallons per year.

WRIGHT COUNTY REGISTERED MAJOR WATER USE: 1996-2000



Amounts shown are in million gallons per year.



Table 1: 1996 Surface Water Use by County Reported by Major Water Users  
(in million gallons per year)

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals <sup>a</sup>
ADAIR	0.00	978.25	10.00	200	0.00	0.00	0.00	0.00	0.00	988.25
ANDREW	2.80	82.37	0.00	0	0.00	0.00	0.00	0.00	0.00	85.17
AUDRAIN	0.05	1.50	1173.59	9030	9.84	70.16	0.00	9.84	0.00	1264.98
BARRY	0.00	0.00	0.00	0	0.00	0.00	0.00	4380.00	0.00	4380.00
BARTON	0.00	57.75	223.06	1886	0.00	0.00	0.00	0.00	0.00	280.80
BATES	10.90	531.18	25.77	82	0.00	0.00	0.00	0.00	0.00	567.84
BENTON	0.00	0.00	0.00	0	0.00	0.00	1397520.00	0.00	0.00	1397520.00
BOONE	0.00	0.00	83.20	220	0.00	0.00	0.00	0.00	0.00	83.20
BUCHANAN	0.00	5756.30	0.00	0	0.00	0.00	15962.65	0.00	0.00	21718.95
BUTLER	0.42	1078.51	648.15	704	0.00	0.00	0.00	0.27	0.00	1727.35
CALDWELL	0.00	87.97	0.00	0	0.00	0.00	0.00	0.00	0.00	87.97
CALLAWAY	7.96	0.00	170.68	960	0.00	0.00	8200.80	0.00	0.00	8379.44
CAMDEN	0.00	0.00	116.00	330	0.00	0.00	58867.00	0.00	0.00	58983.00
CAPE GIRARDEAU	0.00	1528.34	22.88	210	0.00	1008.70	0.00	0.00	463.60	3023.52
CASS	0.00	593.93	104.12	740	0.00	0.00	0.00	0.00	0.00	698.05
CEDAR	0.00	0.00	3.00	100	0.00	0.00	190949.00	0.00	0.00	190952.00
CHARITON	0.00	0.00	0.00	0	0.00	0.00	0.00	5.46	0.00	5.46
CHRISTIAN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
CLAY	346.86	41185.20	0.00	0	22.00	0.00	0.00	0.00	0.00	41554.06
CLINTON	0.00	471.29	0.00	0	1.14	102.70	0.00	0.00	12.74	614.85
COLE	394.49	8.93	6.32	80	0.00	574.98	0.00	0.00	0.00	1419.89
COOPER	0.00	495.67	0.00	0	0.00	0.00	0.00	0.00	0.00	495.67
DADE	0.00	0.00	119.01	815	0.00	0.00	0.00	0.00	0.00	119.01
DAVIESS	0.00	0.00	0.00	0	0.00	45.63	0.00	0.00	0.00	45.63
DEKALB	0.00	49.57	0.00	0	0.00	0.00	0.00	0.00	0.00	49.57
DENT	0.00	0.00	40.00	102	0.00	0.00	0.00	9406.78	0.00	9446.78
DOUGLAS	0.00	0.00	96.00	110	0.00	0.00	0.00	0.00	0.00	96.00
DUNKLIN	0.00	0.00	66.03	189	0.00	0.00	0.00	2.16	0.00	68.19
FRANKLIN	0.00	0.00	0.00	0	0.00	0.00	349006.30	0.00	0.00	349006.30
GASCONADE	0.00	0.00	15.82	187	0.00	0.00	0.00	0.00	0.00	15.82
GENTRY	0.00	156.91	0.00	0	0.00	89.93	0.00	0.00	0.00	246.83
GREENE	0.00	9142.63	2.63	15	0.00	0.87	53441.80	0.00	0.00	62587.93
GRUNDY	0.00	591.89	2.25	150	0.00	0.00	0.00	0.00	0.00	594.13
HARRISON	0.00	150.36	9.00	45	0.20	0.00	0.00	3.00	0.00	164.56
HENRY	0.00	457.26	117.10	825	0.00	0.00	124872.58	118.01	0.00	125564.95
HOLT	0.00	0.00	0.00	0	0.00	0.00	0.00	4000.00	0.00	4000.00
HOWARD	0.00	257.02	0.00	0	0.28	0.00	0.00	70.00	0.00	327.30
IRON	0.00	44.00	0.00	0	0.00	0.00	0.00	0.00	0.00	44.00
JACKSON	0.00	0.00	0.00	0	0.00	2021.52	160949.33	0.00	0.00	162970.85
JASPER	2173.97	336.14	948.84	3345	0.00	1864.11	0.00	0.00	0.34	6288.75
JEFFERSON	0.00	0.00	0.00	0	0.00	989.47	317356.00	0.00	0.00	318345.47
JOHNSON	0.00	0.00	80.00	350	0.00	0.00	0.00	0.00	0.00	80.00
KNOX	0.00	53.00	0.00	0	0.00	0.00	0.00	0.00	0.00	53.00
LACLEDE	0.00	0.00	0.00	0	0.00	0.00	0.00	7300.00	0.00	7300.00
LAFAYETTE	235.20	710.96	0.78	340	0.00	24.71	0.00	0.00	0.00	971.65
LAWRENCE	0.00	0.00	146.10	500	0.00	0.00	0.00	0.00	0.00	146.10
LEWIS	0.00	93.15	0.00	0	0.00	0.00	0.00	0.00	0.00	93.15
LINN	178.06	144.31	10.00	225	0.00	50.49	0.00	0.00	0.00	382.86
LIVINGSTON	0.00	0.00	0.00	0	0.00	0.00	0.00	1700.00	0.00	1700.00
MACON	129.77	346.64	0.00	0	0.00	167.03	0.17	0.00	0.00	738.26
MADISON	0.00	173.99	0.00	0	0.00	0.00	0.00	0.00	0.00	173.99
MARION	576.80	414.91	184.66	744	0.00	320.63	0.00	0.00	0.00	1497.00
MCDONALD	0.00	0.00	63.00	240	0.00	0.00	0.00	0.00	0.00	63.00
MERCER	0.00	8.79	0.00	0	0.00	0.00	0.00	0.00	0.00	8.79
MILLER	0.00	0.00	0.00	0	0.00	0.00	1956485.72	45.50	0.00	1956531.22
MONROE	0.00	1119.36	268.00	280	0.00	0.00	0.00	0.00	0.00	1437.19
MONTGOMERY	0.00	0.00	31.04	440	0.00	0.00	0.00	0.00	0.00	31.04
NEW MADRID	0.00	0.00	0.00	0	0.00	0.00	232725.00	0.00	0.00	232725.00
NODAWAY	0.00	563.23	0.00	0	0.00	0.00	0.00	0.00	0.00	563.23
OSAGE	0.00	0.00	1.20	100	0.00	0.00	16311.70	0.00	0.00	16312.90
OZARK	0.00	0.00	60.48	140	0.00	0.00	0.00	0.00	0.00	60.48
PERRY	0.00	286.82	0.00	0	0.00	0.00	0.00	0.00	0.00	286.82
PETTIS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
PHELPS	0.00	0.00	0.00	0	0.00	0.00	0.00	2595.94	0.00	2595.94
PIKE	155.43	286.74	0.00	0	0.00	2171.30	267.38	74.75	125.11	3080.70
PLATTE	0.00	0.00	8.00	40	0.00	0.00	165256.79	0.00	0.00	165264.79
POLK	0.00	0.00	3.44	250	0.00	0.00	0.00	0.00	0.00	3.44
PULASKI	1256.50	0.00	4.90	20	0.00	0.00	0.00	0.00	0.00	1251.60
PUTNAM	0.00	135.89	0.00	0	0.00	0.00	0.00	0.00	0.00	135.89

Table 1, continued next page

Table 1, continued

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
RALLS	0.00	0.00	5.18	220	0.00	94.00	309492.13	0.00	0.00	309591.31
RANDOLPH	0.00	515.95	70.00	200	0.00	0.00	239670.48	0.00	0.00	240256.43
RAY	0.00	62.91	0.00	0	0.00	0.00	0.00	0.00	0.00	62.91
REYNOLDS	0.07	3.53	0.00	0	0.00	0.00	852.04	0.00	0.00	855.64
RIPLEY	0.00	0.00	1471.57	1532	0.00	0.00	0.00	0.00	0.00	1471.57
SCHUYLER	23.55	56.37	0.00	0	0.00	1.48	0.00	0.00	1.95	84.75
SCOTLAND	0.00	151.48	0.00	0	0.00	0.00	0.00	0.00	0.00	151.48
SHELBY	0.00	199.20	0.00	0	0.00	0.00	0.00	0.00	0.00	199.20
ST. CHARLES	0.00	0.00	21.12	269	0.00	0.00	173367.44	0.00	0.00	173388.56
ST. FRANCOIS	0.30	0.00	0.00	0	0.00	605.05	0.00	0.00	12.85	618.20
ST. LOUIS	0.00	56911.04	0.00	0	0.00	3906.36	122551.00	0.00	0.00	189880.33
ST. LOUIS CITY	0.00	54414.00	0.00	0	0.00	125.33	0.00	0.00	0.00	54539.33
STODDARD	0.00	0.00	135.17	670	0.00	0.00	0.00	0.00	0.00	135.17
SULLIVAN	0.00	328.64	0.00	0	0.00	180.00	0.00	0.00	0.00	508.64
TANEY	81.09	1575.27	27.38	84	0.00	0.00	814669.27	5665.55	0.00	821998.56
VERNON	1.10	0.00	340.51	1241	0.00	0.00	0.00	584.00	0.00	925.60
WARREN	0.00	0.00	4.32	53	0.00	0.00	0.00	0.00	0.00	4.32
WASHINGTON	0.00	0.00	0.00	0	0.00	726.01	0.00	0.00	0.00	726.01
WAYNE	0.00	164.25	0.00	0	0.00	0.00	0.00	1222.16	0.00	1386.41
WEBSTER	0.00	0.00	40.73	391	0.00	0.00	0.00	0.00	0.00	40.73
TOTALS*	5555.32	182763.38	6981.04	28654	33.46	15140.44	6708774.57	37183.41	616.58	6965125.72

\*Figures may not add to totals because of independent rounding

Table 2: 1996 Groundwater Use by County Reported by Major Water Users  
(in million gallons per year)

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
ADAIR	0.00	13.77	0.00	0	0.00	0.00	0.00	0.00	0.00	13.77
ANDREW	5.60	100.96	0.00	0	0.00	0.00	0.00	0.00	0.00	106.56
ATCHISON	0.00	93.15	117.99	1005	0.00	0.00	0.00	0.00	0.00	211.14
AUDRAIN	2.59	815.49	484.50	4252	0.00	1.50	0.00	0.00	0.00	1304.08
BARRY	184.00	402.06	0.00	0	0.00	1124.28	0.00	0.00	21.56	1731.90
BARTON	315.63	174.86	916.77	5637	0.00	7.83	0.00	0.00	0.00	1415.09
BENTON	0.00	201.58	8.00	60	0.39	0.00	0.00	0.00	0.00	209.97
BOLLINGER	0.00	107.15	900.22	1781	0.00	0.00	0.00	0.00	0.00	1007.37
BOONE	367.24	5777.73	41.23	870	0.00	23.95	253.24	0.00	0.00	6475.81
BUCHANAN	0.00	0.00	0.00	0	0.00	0.00	486.76	0.00	0.00	486.76
BUTLER	82.04	241.84	55336.62	61251	0.00	0.00	0.00	146.93	0.00	55807.24
CALDWELL	0.00	44.48	0.00	0	0.00	0.00	0.00	0.00	0.00	44.48
CALLAWAY	273.25	848.68	153.44	800	0.00	0.00	153.10	0.00	0.00	1428.47
CAMDEN	215.50	261.74	0.00	0	0.00	0.00	0.00	15.00	0.00	498.22
CAPE GIRARDEAU	20.34	1124.07	380.91	1739	0.05	2848.30	0.38	0.00	0.00	4399.96
CARROLL	0.00	425.61	93.34	869	0.24	0.00	0.00	0.00	0.00	519.19
CARTER	0.00	37.84	0.00	0	0.00	0.00	0.00	0.00	0.00	37.84
CASS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
CEDAR	80.79	191.37	0.00	0	3.02	33.52	0.00	0.00	0.00	308.69
CHARITON	59.42	96.21	26.50	160	3.50	0.38	0.00	0.00	1.17	187.17
CHRISTIAN	258.86	414.92	0.00	0	1.27	150.34	0.00	0.00	47.75	955.63
CLARK	151.51	1.01	75.43	457	0.00	1.38	0.00	0.00	0.00	266.40
CLAY	0.00	8885.85	0.00	0	0.00	2287.60	0.00	0.00	105.13	11278.58
COLE	364.09	502.93	0.00	0	0.00	166.48	0.00	0.00	0.00	1159.50
COOPER	0.00	70.94	0.00	0	0.00	0.00	0.00	0.00	0.00	70.94
CRAWFORD	0.00	401.48	0.00	0	0.00	0.00	0.00	0.00	0.00	401.48
DADE	0.30	149.46	603.12	2879	0.42	0.00	0.00	0.00	0.00	753.29
DALLAS	0.00	23.83	0.00	0	0.00	0.00	0.00	0.00	0.00	23.83
DAVIESS	34.71	191.03	0.00	0	0.00	10.95	0.00	0.00	0.00	249.14
DUNKLIN	0.00	1363.40	5096.03	23397	0.00	0.00	0.00	6.98	0.00	6466.41
FRANKLIN	1.00	2113.83	0.00	0	0.00	63.80	653.00	0.00	0.00	2831.63
GASCONADE	0.00	295.75	0.00	0	0.00	1.81	0.00	0.00	0.00	315.94
GENTRY	0.00	82.48	0.00	0	0.00	0.00	0.00	0.00	0.00	82.48
GREENE	218.44	2132.76	0.61	10	0.00	713.00	799.29	0.00	135.85	3999.94
GRUNDY	0.00	0.00	272.57	800	0.00	0.00	0.00	0.00	0.00	272.57
HARRISON	0.00	8.11	0.00	0	0.00	0.00	0.00	0.00	0.00	8.11
HENRY	0.00	93.08	20.92	110	0.00	0.00	0.00	0.00	0.00	114.00
HICKORY	5.69	38.51	0.00	0	1.88	0.00	0.00	0.00	0.00	46.08
HOLT	110.13	79.07	18.50	230	0.90	0.00	0.00	150.22	0.00	358.81
HOWARD	52.75	30.81	0.00	0	0.37	0.00	0.00	0.00	0.00	83.93
HOWELL	111.75	953.21	30.50	60	0.40	14.80	0.00	0.00	0.00	1115.03
IRON	6.95	82.07	0.00	0	0.00	113.48	0.00	0.00	2733.40	2935.90
JACKSON	4730.63	4759.80	0.00	0	0.00	622.24	0.92	0.00	0.00	10113.59
JASPER	360.55	571.54	279.88	1216	0.20	978.75	370.01	0.00	1.66	2714.63
JEFFERSON	252.39	2115.08	0.00	0	0.00	156.06	0.00	0.00	0.00	2556.20
JOHNSON	414.80	786.48	0.00	0	0.00	62.09	0.00	0.00	0.00	1304.29
LACLEDE	0.00	1065.21	0.00	0	0.00	84.00	0.00	0.00	0.00	1149.22
LAFAYETTE	0.00	59.20	0.12	100	0.00	0.00	0.00	0.00	0.00	59.32
LAWRENCE	158.08	844.85	0.00	0	13.40	21.50	0.00	0.00	0.00	1059.78
LEWIS	0.00	185.90	0.00	0	0.00	21.73	0.00	0.00	0.00	207.63
LINCOLN	0.00	579.99	34.88	320	0.00	0.00	0.00	0.00	0.00	614.87
LINN	0.00	25.21	0.00	0	0.00	0.00	0.00	0.00	0.00	25.21
LIVINGSTON	18.56	821.65	0.00	0	0.00	0.00	12.16	0.00	0.00	852.38
MADISON	0.00	40.33	0.00	0	0.00	0.00	0.00	0.00	0.00	40.33
MARIES	1.64	30.48	0.00	0	352.00	3.69	0.00	0.00	0.00	387.81
MARION	0.00	158.71	37.75	400	0.00	723.00	0.00	0.00	0.00	919.46
MCDONALD	67.98	762.86	0.00	0	0.00	316.99	0.00	0.00	0.00	1147.83
MERCER	0.00	68.23	0.00	0	0.00	0.00	0.00	0.00	0.00	68.23
MILLER	21.90	383.57	0.00	0	0.00	0.00	0.00	0.00	0.00	405.47
MISSISSIPPI	0.22	528.78	6211.79	14615	0.00	0.00	0.00	0.00	0.00	6740.79
MONITEAU	91.01	11.46	0.00	0	1.12	18.32	0.00	0.00	0.00	121.90
MONTGOMERY	0.00	66.13	24.00	355	0.00	0.00	0.00	0.00	0.00	90.13
MORGAN	77.08	32.15	0.00	0	0.00	24.51	0.00	0.00	0.00	133.74
NEW MADRID	99.75	423.94	26279.12	70465	0.00	406.36	388.32	60.00	0.00	27657.49
NEWTON	0.00	320.14	6.12	57	3.50	108.32	0.00	0.00	0.00	438.08
NODAWAY	0.00	29.77	6.00	60	0.00	0.00	0.00	0.00	0.00	35.77
OREGON	48.07	702.90	0.00	0	0.67	9.35	0.00	0.00	0.00	760.99
OSAGE	0.00	191.69	0.00	0	0.00	0.00	94.05	0.00	0.00	285.74
OZARK	0.00	67.12	0.00	0	0.00	0.00	0.00	0.00	0.00	67.12

Table 2, continued next page



Table 2, continued

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
PEMISCOT	0.00	852.51	5292.79	21964	0.00	50.00	0.00	436.00	0.00	6631.30
PERRY	0.18	145.54	0.00	0	0.00	2.37	0.00	0.00	0.00	150.08
PETTIS	0.00	88.84	0.00	0	0.00	448.28	0.00	0.00	0.00	537.12
PHELPS	0.94	1030.89	0.00	0	0.94	0.00	0.00	0.00	0.00	1032.76
PIKE	0.00	0.00	70.47	600	0.00	0.77	0.00	12.00	0.06	83.30
PLATTE	0.00	610.05	0.00	0	11.74	6.23	207.07	0.00	0.00	835.09
POLK	0.00	570.51	42.10	260	0.02	0.00	0.00	0.00	0.00	612.63
PULASKI	71.53	677.32	0.10	0	2.28	12.10	0.00	0.00	0.00	763.13
RAY	0.00	724.33	0.00	0	0.00	0.00	0.00	0.00	0.00	724.33
REYNOLDS	91.96	8.25	0.00	0	3.14	7.79	0.13	0.00	7097.60	7208.87
RIPLEY	0.00	119.80	2977.94	5068	0.00	0.00	0.00	0.00	0.00	3097.74
SALINE	0.00	1379.85	0.00	0	0.00	0.00	0.00	0.00	0.00	1379.85
SCOTT	1.50	1575.12	5225.91	14678	3.53	13.68	405.10	1.00	0.00	7225.84
SHANNON	0.00	460.14	0.00	0	0.00	0.00	0.00	0.00	0.00	460.14
ST. CHARLES	0.00	7624.63	222.89	711	0.00	422.01	0.00	0.00	0.00	8269.53
ST. CLAIR	0.00	89.73	0.00	0	0.00	0.00	0.00	0.00	0.00	89.73
ST. FRANCOIS	80.72	737.88	0.00	0	0.00	44.79	0.00	0.00	0.95	864.33
ST. LOUIS	0.00	1293.03	0.00	0	0.00	480.18	0.00	0.00	0.00	1773.21
STE. GENEVIEVE	90.03	202.10	0.00	0	1.23	71.94	0.00	0.00	0.00	420.14
STODDARD	252.98	349.02	23470.53	49747	0.60	395.11	0.00	0.00	0.00	24519.18
STONE	3.46	347.02	2.62	50	0.00	0.00	0.00	0.00	0.00	353.10
TANEY	88.58	1242.38	0.00	0	0.00	4.81	0.00	460.07	0.00	1795.85
TEXAS	0.04	487.67	2.75	34	0.00	232.06	0.00	0.00	0.00	722.52
VERNON	0.00	852.43	8.64	480	0.00	99.28	0.00	0.00	0.00	960.35
WARREN	0.00	444.47	13.50	305	0.00	32.76	0.00	0.00	0.00	490.73
WASHINGTON	17.52	315.14	0.00	0	0.00	1692.05	0.00	0.00	176.00	2200.71
WAYNE	0.37	34.72	0.00	510	0.00	0.00	0.00	267.84	0.00	302.93
WEBSTER	0.00	422.99	4.63	30	0.00	0.00	0.00	0.00	0.00	427.61
WRIGHT	0.00	305.93	0.00	0	0.64	10.59	0.00	0.00	0.00	317.17
TOTALS*	9965.03	67498.38	134791.71	288392	407.45	15147.13	3823.53	1556.04	10321.13	244190.58

\*Figures may not add to totals because of independent rounding

Table 3: 1997 Surface Water Use by County Reported by Major Water Users  
(in million gallons per year)

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
ADAIR	0.00	956.14	10.00	200	0.00	0.00	0.00	0.00	0.00	966.14
ANDREW	0.00	88.58	0.00	0	0.00	0.00	0.00	0.00	0.00	88.58
AUDRAIN	0.05	1.73	1241.08	9030	9.84	115.07	0.00	9.84	0.00	1377.62
BARRY	0.00	0.00	0.00	0	0.00	0.00	0.00	4380.00	0.00	4380.00
BARTON	0.00	57.73	238.95	1922	0.00	0.00	0.00	0.00	0.00	296.68
BATES	0.00	508.48	13.04	82	0.00	0.00	0.00	0.00	0.00	546.55
BENTON	0.00	0.00	0.00	0	0.00	0.00	2077816.73	0.00	0.00	2077816.73
BOONE	0.00	0.00	83.20	220	0.00	0.00	0.00	0.00	0.00	83.20
BUCHANAN	0.00	5532.03	0.00	0	0.00	0.00	25201.20	0.00	0.00	30733.23
BUTLER	0.38	1050.29	644.34	689	0.00	0.00	0.00	1.64	0.00	1696.65
CALDWELL	0.00	79.69	0.00	0	0.00	0.00	0.00	0.00	0.00	79.69
CALLAWAY	7.96	0.00	177.75	1060	0.00	0.00	8035.03	0.00	0.00	8220.74
CAMDEN	0.00	0.00	116.00	330	0.00	0.00	58867.00	0.00	0.00	58983.00
CAPE GIRARDEAU	0.00	1556.19	22.88	210	0.00	1010.00	0.00	0.00	256.00	2845.07
CASS	0.00	602.10	104.12	740	0.00	0.00	0.00	0.00	0.00	706.22
CEDAR	0.00	0.00	3.00	100	0.00	0.00	187366.01	0.00	0.00	187369.01
CHARITON	0.00	0.00	0.00	0	0.00	0.00	0.00	5.46	0.00	5.46
CHRISTIAN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
CLAY	346.86	41185.20	0.00	0	22.00	0.00	0.00	0.00	0.00	41554.06
CLINTON	0.00	492.01	0.00	0	1.62	147.63	0.00	0.00	14.74	701.42
COLE	394.49	8.93	7.20	120	0.00	574.98	0.00	0.00	0.00	1420.77
COOPER	0.00	420.20	0.00	0	0.00	0.00	0.00	0.00	0.00	464.31
DADE	0.00	0.00	119.01	815	0.00	0.00	0.00	0.00	0.00	119.01
DALLAS	0.00	0.00	7.49	80	0.00	0.00	0.00	0.00	0.00	7.49
DEKALB	0.00	39.76	0.00	0	0.00	0.00	0.00	0.00	0.00	39.76
DENT	0.00	0.00	40.00	102	0.00	0.00	0.00	9406.78	0.00	9446.78
DOUGLAS	0.00	0.00	96.00	110	0.00	0.00	0.00	0.00	0.00	96.00
DUNKLIN	0.00	0.00	66.03	189	0.00	0.00	0.00	2.16	0.00	68.19
FRANKLIN	0.00	0.00	0.00	0	0.00	0.00	366815.14	0.00	0.00	366815.14
GASCONADE	0.00	0.00	15.17	117	0.00	0.00	0.00	0.00	0.00	15.17
GENTRY	0.00	162.18	0.00	0	0.00	89.93	0.00	0.00	0.00	252.11
GREENE	0.00	9658.89	2.63	15	0.00	0.00	56158.05	0.00	0.00	66913.02
GRUNDY	0.00	535.00	2.25	150	0.00	0.00	0.00	0.00	0.00	537.25
HARRISON	0.00	150.36	9.50	45	0.20	0.00	0.00	3.00	0.00	165.06
HENRY	0.00	483.30	117.10	825	0.00	0.00	141461.83	118.01	0.00	142180.25
HOLT	0.00	0.00	0.00	0	0.00	0.00	0.00	4000.00	0.00	4000.00
HOWARD	0.00	256.18	0.00	0	0.28	0.00	0.00	70.00	0.00	326.47
IRON	0.00	56.83	0.00	0	0.00	0.00	0.00	0.00	0.00	56.83
JACKSON	0.00	0.00	0.00	0	0.00	2021.52	158573.25	0.00	0.00	160594.77
JASPER	1322.97	1253.39	962.24	3362	0.00	1527.18	0.00	0.00	0.34	5755.73
JEFFERSON	0.00	0.00	0.00	0	0.00	989.47	290353.53	0.00	0.00	291342.99
JOHNSON	0.00	0.00	80.00	350	0.00	0.00	0.00	0.00	0.00	80.00
KNOX	0.00	50.86	0.00	0	0.00	0.00	0.00	0.00	0.00	50.86
LACLEDE	0.00	0.00	0.00	0	0.00	0.00	0.00	7300.00	0.00	7300.00
LAFAYETTE	237.98	482.91	28.80	251	0.00	41.49	0.00	0.00	0.00	791.17
LAWRENCE	0.00	0.00	157.10	580	0.00	0.00	0.00	0.00	0.00	157.10
LEWIS	0.00	84.85	0.00	0	0.00	0.00	0.00	0.00	0.00	84.85
LINN	191.68	186.61	10.00	225	0.00	57.76	0.00	0.00	0.00	446.05
LIVINGSTON	0.00	0.00	0.00	0	0.00	0.00	0.00	1700.00	0.00	1700.00
MACON	134.55	390.51	0.78	0	0.00	173.64	0.11	0.00	0.00	707.96
MADISON	0.00	165.83	0.00	0	0.00	0.00	0.00	0.00	0.00	165.83
MARION	628.88	439.04	184.66	744	0.00	335.04	0.00	0.00	0.00	1587.62
MCDONALD	0.00	0.00	63.00	240	0.00	0.00	0.00	0.00	0.00	63.00
MERCER	0.00	8.79	0.00	0	0.00	0.00	0.00	0.00	0.00	8.79
MILLER	0.00	0.00	0.00	0	0.00	0.00	2468572.97	50.50	0.00	2468623.47
MONROE	0.00	1109.31	40.00	280	0.00	0.00	0.00	0.00	0.00	1215.30
MONTGOMERY	0.00	0.00	43.00	440	0.00	0.00	0.00	0.00	0.00	43.00
NEW MADRID	0.00	0.00	0.00	0	0.00	0.00	200800.00	0.00	0.00	200800.00
NEWTON	0.00	445.33	0.00	0	0.00	0.00	0.00	0.00	0.00	445.33
NODAWAY	0.00	631.63	0.00	0	0.00	0.00	0.00	0.00	0.00	631.63
OSAGE	0.00	0.00	3.60	100	0.00	0.00	16810.01	0.00	0.00	16813.61
OZARK	0.00	0.00	60.48	140	0.00	0.00	0.00	0.00	0.00	60.48
PERRY	0.00	276.40	0.00	0	0.00	0.00	0.00	0.00	0.00	276.40
PETTIS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
PHELPS	0.00	0.00	0.00	0	0.00	0.00	0.00	2595.94	0.00	2595.94
PIKE	155.70	291.40	0.00	0	0.00	2391.15	266.42	4732.26	142.99	7979.93
PLATTE	0.00	0.00	12.00	45	0.00	0.00	155429.17	0.00	0.00	155441.17

Table 3, continued next page

Table 3, continued

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
POLK	0.00	0.00	2.00	250	0.00	0.00	0.00	0.00	0.00	2.00
PULASKI	1131.45	0.00	4.85	20	0.00	0.00	0.00	0.00	0.00	1136.30
PUTNAM	0.00	115.00	0.00	0	0.00	0.00	0.00	0.00	0.00	115.00
RALLS	0.00	0.00	17.28	355	0.00	94.00	356189.18	0.00	0.00	356300.46
RANDOLPH	0.00	512.79	70.00	200	0.00	0.00	239670.48	0.00	0.00	240253.27
RAY	0.00	26.00	0.00	0	0.00	0.00	0.00	0.00	0.00	26.00
REYNOLDS	0.07	3.82	0.00	0	0.00	0.00	776.23	0.00	0.00	780.12
RIPLEY	0.00	0.00	1471.57	1532	0.00	0.00	0.00	0.00	0.00	1471.57
SCHUYLER	27.84	50.34	0.00	0	0.00	0.00	0.00	0.00	1.86	80.04
SCOTLAND	0.00	150.84	0.00	0	0.00	0.00	0.00	0.00	0.00	150.84
SHELBY	0.00	83.90	0.00	0	0.00	0.00	0.00	0.00	0.00	83.90
ST. CHARLES	0.00	0.00	20.40	329	0.00	0.00	175211.15	0.00	0.00	175231.55
ST. FRANCOIS	0.30	0.00	0.00	0	0.00	605.05	0.00	0.00	12.85	618.20
ST. LOUIS	0.00	58302.30	0.00	0	0.00	3863.16	112413.86	0.00	0.00	180841.04
ST. LOUIS CITY	0.00	55178.00	0.00	0	0.00	140.19	0.00	0.00	0.00	55318.19
STODDARD	0.00	0.00	135.17	670	0.00	0.00	0.00	0.00	0.00	135.17
SULLIVAN	0.00	327.41	0.00	0	0.00	195.00	0.00	0.00	0.00	522.41
TANEY	56.81	1544.20	27.38	84	0.00	0.00	930092.22	5665.55	0.00	937386.16
VERNON	1.82	0.00	259.90	2943	0.00	0.00	0.00	890.00	0.00	1151.72
WARREN	0.00	0.00	3.99	45	0.00	0.00	0.00	0.00	0.00	3.99
WASHINGTON	0.00	0.00	0.00	0	0.00	438.46	0.00	0.00	0.00	438.46
WAYNE	0.00	164.25	0.00	0	0.00	0.00	0.00	1222.16	0.00	1386.41
WEBSTER	0.00	0.00	108.00	380	0.00	0.00	0.00	0.00	0.00	108.00
TOTALS*	4639.78	186157.53	6902.96	30716	33.94	14810.71	8026879.54	42153.29	428.79	8290677.43

\*Figures may not add to totals because of independent rounding



Table 4: 1997 Groundwater Use by County Reported by Major Water Users  
(in million gallons per year)

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
ADAIR	0.00	13.77	0.00	0	0.00	0.00	0.00	0.00	0.00	13.77
ANDREW	5.60	97.85	0.00	0	0.00	0.00	0.00	0.00	0.00	103.45
ATCHISON	0.00	86.82	114.73	1005	0.00	0.00	0.00	0.00	0.00	201.55
AUDRAIN	0.16	799.63	497.66	4252	0.00	1.73	0.00	0.00	0.00	1299.18
BARRY	189.84	328.52	0.00	0	0.00	1208.15	0.00	0.00	12.20	1786.93
BARTON	308.71	172.02	953.48	6109	0.00	7.57	0.00	0.00	0.00	1441.79
BENTON	0.00	201.17	8.00	60	0.41	0.00	0.00	0.00	0.00	209.58
BOLLINGER	0.00	107.15	1095.18	3081	0.00	0.00	0.00	0.00	0.00	1202.33
BOONE	404.65	6467.48	144.70	1395	0.00	23.95	243.31	0.00	0.00	7297.03
BUCHANAN	0.00	0.00	0.00	0	0.00	0.00	481.04	0.00	0.00	481.04
BUTLER	82.09	258.71	56324.36	61812	0.00	0.00	0.00	147.28	0.00	56812.44
CALDWELL	0.00	45.92	0.00	0	0.00	0.00	0.00	0.00	0.00	45.92
CALLAWAY	326.02	908.18	242.94	1070	0.00	0.00	151.18	0.00	0.00	1638.31
CAMDEN	239.44	287.28	0.00	0	0.00	0.00	0.00	15.00	0.00	548.60
CAPE GIRARDEAU	20.95	1097.69	406.10	1839	0.05	2610.19	0.38	0.00	0.00	4160.22
CARROLL	0.00	422.89	223.97	1009	0.29	0.00	0.00	0.00	0.00	647.15
CARTER	0.00	130.22	0.00	0	0.00	0.00	0.00	0.00	0.00	130.22
CASS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
CEDAR	80.79	186.10	0.00	0	3.02	18.56	0.00	0.00	0.00	288.47
CHARITON	17.96	128.59	26.59	320	0.00	0.27	0.00	0.00	0.00	179.64
CHRISTIAN	254.04	390.23	0.00	0	1.57	123.10	0.00	0.00	86.21	939.74
CLARK	133.87	0.56	75.43	457	0.00	2.63	0.17	0.00	0.00	233.49
CLAY	107.55	9188.86	0.00	0	0.00	2286.60	0.00	0.00	105.13	11690.53
COLE	361.58	512.00	0.00	0	0.00	166.48	0.00	0.00	0.00	1166.06
COOPER	0.00	75.94	0.00	0	0.00	0.00	0.00	0.00	0.00	75.94
CRAWFORD	0.00	457.60	0.00	0	0.00	0.00	0.00	0.00	0.00	457.60
DADE	0.30	143.57	603.12	2879	0.50	0.00	0.00	0.00	0.00	747.49
DALLAS	0.00	16.04	0.00	0	0.00	0.00	0.00	0.00	0.00	16.04
DAVIESS	60.93	143.99	0.00	0	0.00	21.00	0.00	0.00	0.00	225.92
DUNKLIN	0.00	1389.96	5223.38	23873	0.00	0.00	0.00	6.98	0.00	6620.32
FRANKLIN	1.00	2143.23	0.00	0	0.00	55.91	558.58	0.00	0.00	2758.73
GASCONADE	0.00	279.42	0.00	0	0.00	1.81	0.00	0.00	0.00	297.01
GENTRY	0.00	106.91	0.00	0	0.00	0.00	0.00	0.00	0.00	106.91
GREENE	186.07	1695.50	0.61	10	0.00	683.18	592.51	0.00	128.42	3392.84
GRUNDY	0.00	0.00	272.57	800	0.00	0.00	0.00	0.00	0.00	272.57
HARRISON	0.00	8.76	0.00	0	0.00	0.00	0.00	0.00	0.00	8.76
HENRY	0.00	94.13	20.92	110	0.00	0.00	0.00	0.00	0.00	115.04
HICKORY	6.95	28.06	0.00	0	1.88	0.00	0.00	0.00	0.00	36.88
HOLT	103.04	53.75	102.89	694	0.95	0.00	0.00	184.32	0.00	444.95
HOWARD	55.72	30.81	0.00	0	0.37	0.00	0.00	0.00	0.00	86.90
HOWELL	130.59	959.03	5.10	60	2.50	8.10	0.00	0.00	0.00	1105.32
IRON	7.07	84.54	0.00	0	0.00	71.19	0.00	0.00	2733.40	2896.21
JACKSON	4480.46	4507.48	0.00	0	0.00	594.84	9.20	0.00	32.32	9624.30
JASPER	333.74	626.76	555.33	1678	0.26	942.24	625.90	0.00	1.66	3250.48
JEFFERSON	305.57	2159.12	0.00	0	0.00	167.71	0.00	0.00	0.00	2644.20
JOHNSON	432.83	859.36	0.00	0	0.00	65.13	0.00	0.00	0.00	1390.02
LACLEDE	0.00	1087.64	0.00	0	0.00	84.00	0.00	0.00	0.00	1171.64
LAFAYETTE	0.00	110.66	71.44	602	0.00	0.00	0.00	0.00	0.00	182.10
LAWRENCE	154.38	701.85	0.00	0	23.60	27.97	0.00	0.00	0.00	929.63
LEWIS	0.00	172.81	0.00	0	0.00	18.06	0.00	0.00	0.00	190.87
LINCOLN	0.00	611.49	52.16	320	0.00	0.00	0.00	0.00	0.00	663.65
LINN	0.00	26.54	0.00	0	0.00	0.00	0.00	0.00	0.00	26.54
LIVINGSTON	23.62	688.04	0.00	0	0.00	0.00	13.45	0.00	0.00	725.11
MADISON	0.00	46.26	0.00	0	0.00	0.00	0.00	0.00	0.00	46.26
MARIES	1.80	30.48	0.00	0	352.00	26.70	0.00	0.00	0.00	410.98
MARION	0.00	157.32	37.75	400	0.00	679.00	0.00	0.00	0.00	874.07
MCDONALD	73.25	735.61	0.00	0	0.00	329.78	0.00	0.00	0.00	1138.64
MERCER	0.00	52.74	0.00	0	0.00	0.00	0.00	0.00	0.00	52.74
MILLER	21.90	425.38	0.00	0	0.00	0.00	0.00	0.00	0.00	447.28
MISSISSIPPI	0.22	498.90	6101.14	14731	0.00	0.00	0.00	0.00	0.00	6600.26
MONITEAU	99.13	17.33	0.00	0	3.90	15.81	0.00	0.00	0.00	136.17
MONTGOMERY	0.00	64.19	24.00	355	0.00	0.00	0.00	0.00	0.00	88.19
MORGAN	84.30	39.80	0.00	0	0.00	31.43	0.00	0.00	0.00	155.53
NEW MADRID	99.75	384.51	27388.49	73274	0.00	399.27	358.22	0.06	0.00	28632.30
NEWTON	0.00	865.65	0.00	0	4.00	135.24	0.00	0.00	0.00	1004.89
NODAWAY	0.00	29.77	6.00	60	0.00	0.00	0.00	0.00	0.00	35.77
OREGON	48.24	703.71	0.00	0	0.67	9.38	0.00	0.00	0.00	762.00

Table 4, continued next page

Table 4, continued

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
OSAGE	0.00	194.97	0.00	0	0.00	0.00	96.64	0.00	0.00	291.61
OZARK	0.00	68.11	0.00	0	0.00	0.00	0.00	0.00	0.00	68.11
PEMISCOT	0.00	1108.50	5424.54	22153	0.00	14.26	0.00	439.42	0.00	6986.72
PERRY	0.18	167.81	0.00	0	0.00	2.66	0.00	0.00	0.00	172.35
PETTIS	0.00	89.57	0.00	0	0.00	612.69	0.00	0.00	0.00	702.26
PHELPS	0.94	1161.01	0.00	0	0.94	0.00	0.00	0.00	0.00	1162.88
PIKE	0.00	0.00	70.50	600	0.00	1.01	0.00	12.00	0.09	83.60
PLATTE	0.00	844.11	0.00	0	9.60	14.09	274.74	0.00	0.00	1142.54
POLK	0.00	563.59	42.10	260	0.02	0.00	0.00	0.00	0.00	605.71
PULASKI	81.93	1265.01	0.15	0	2.28	12.10	0.00	0.00	0.00	1104.08
RAY	0.00	703.09	0.00	0	0.00	0.00	0.00	0.00	0.00	703.09
REYNOLDS	91.96	8.25	0.00	0	3.14	7.79	0.11	0.00	7005.34	7116.58
RIPLEY	0.00	119.80	3037.94	5235	0.00	0.00	0.00	0.00	0.00	3157.74
SALINE	0.00	1458.65	0.00	0	0.00	0.00	0.00	0.00	0.00	1458.65
SCOTT	1.53	1607.80	5270.95	15313	3.53	13.68	1520.01	1.00	0.00	8418.50
SHANNON	0.00	122.49	0.00	0	0.00	0.00	0.00	0.00	0.00	122.49
ST. CHARLES	0.00	7911.08	263.05	968	0.00	577.25	0.00	0.00	0.00	8835.50
ST. CLAIR	0.00	74.64	0.00	0	0.00	0.00	0.00	0.00	0.00	74.64
ST. FRANCOIS	99.84	758.27	0.00	0	0.00	44.79	0.00	0.00	0.95	903.85
ST. LOUIS	0.00	1309.92	0.00	0	0.00	499.69	0.00	0.00	0.00	1809.61
STE. GENEVIEVE	87.79	226.15	0.00	0	1.23	75.53	0.00	0.00	0.00	416.86
STODDARD	260.69	343.14	23641.62	50657	1.30	461.29	0.00	0.00	0.00	24731.08
STONE	2.83	394.88	2.62	50	0.00	0.00	0.00	0.00	0.00	400.33
TANEY	91.07	1105.17	0.00	0	0.00	8.71	0.00	460.07	0.00	1665.03
TEXAS	0.08	531.65	25.84	48	0.00	232.06	0.00	0.00	0.00	789.63
VERNON	1.99	837.59	10.46	480	0.00	105.93	0.00	0.00	0.00	955.96
WARREN	35.60	397.61	18.66	495	0.00	32.76	0.00	0.00	0.00	484.64
WASHINGTON	17.52	280.30	0.00	0	0.00	1454.88	0.00	0.00	176.00	1928.70
WAYNE	0.37	32.76	0.00	510	0.00	0.00	0.00	267.84	0.00	300.96
WEBSTER	0.00	422.65	4.70	30	0.00	0.00	0.00	0.00	0.00	427.35
WRIGHT	0.00	375.27	0.00	0	0.64	10.59	0.00	0.00	0.00	386.50
TOTALS*	10018.40	69630.14	138391.16	299054	418.66	14998.77	4925.43	1533.97	10281.70	250774.05

\*Figures may not add to totals because of independent rounding



Table 5: 1998 Surface Water Use by County Reported by Major Water Users  
(in million gallons per year)

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
ADAIR	0.00	962.12	10.00	200	0.00	0.00	0.00	0.00	0.00	972.12
ANDREW	0.00	87.25	0.00	0	0.00	0.00	0.00	0.00	0.00	87.25
AUDRAIN	0.05	1.35	1317.25	9154	9.84	115.45	0.00	18.07	0.00	1462.01
BARRY	0.00	0.00	0.00	0	0.00	0.00	0.00	4380.00	0.00	4380.00
BARTON	0.00	119.12	299.94	2292	0.00	0.00	0.00	0.00	0.00	419.06
BATES	0.00	528.01	12.08	82	0.00	0.00	0.00	0.00	0.00	571.00
BENTON	0.00	0.00	0.00	0	0.00	0.00	3435048.82	0.00	0.00	3435048.82
BOONE	0.00	0.00	83.20	220	0.00	0.00	0.00	0.00	0.00	83.20
BUCHANAN	0.00	5871.08	0.00	0	0.00	0.00	25689.10	0.00	0.00	31560.18
BUTLER	0.38	1073.43	557.30	731	0.00	90.00	0.00	1.64	0.00	1722.75
CALDWELL	0.00	65.62	0.00	0	0.00	0.00	0.00	0.00	0.00	65.62
CALLAWAY	7.96	0.00	148.00	970	0.00	0.00	8035.03	0.00	0.00	8191.00
CAMDEN	0.00	0.00	116.00	330	0.00	0.00	58867.00	15.00	0.00	58998.00
CAPE GIRARDEAU	0.00	1336.45	22.88	210	0.00	997.10	0.00	0.00	243.45	2599.88
CASS	0.00	613.65	104.12	740	0.00	0.00	0.00	0.00	0.00	732.85
CEDAR	0.00	0.00	3.00	100	0.00	0.00	141835.00	0.00	0.00	141838.00
CHARITON	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
CHRISTIAN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
CLAY	346.86	41185.20	0.00	0	22.00	0.00	0.00	0.00	0.00	41554.06
CLINTON	0.00	521.09	0.00	0	1.43	157.99	0.00	0.00	19.95	719.63
COLE	390.71	11.33	2.16	49	0.00	474.29	0.00	0.00	0.00	1553.49
COOPER	0.00	418.56	0.00	0	0.00	2.58	0.00	0.00	0.00	465.33
DADE	0.00	0.00	133.89	993	0.00	0.00	0.00	0.00	0.00	133.89
DALLAS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
DEKALB	0.00	3.81	0.00	0	0.00	0.00	0.00	0.00	0.00	3.81
DENT	0.00	0.00	40.00	102	0.00	0.00	0.00	9406.78	0.00	9446.78
DOUGLAS	0.00	0.00	96.00	110	0.00	0.00	0.00	0.00	0.00	96.00
DUNKLIN	0.00	0.00	66.03	189	0.00	0.00	0.00	2.16	0.00	68.19
FRANKLIN	0.00	0.00	0.00	0	0.00	0.00	366815.14	0.00	0.00	366815.14
GASCONADE	0.00	0.00	17.33	187	0.00	0.00	0.00	0.00	0.00	17.33
GENTRY	0.00	165.42	0.00	0	0.00	89.93	0.00	0.00	0.00	255.34
GREENE	0.00	9987.73	2.63	15	0.00	0.00	63511.56	0.00	0.00	73501.92
GRUNDY	0.00	549.78	2.25	150	0.00	0.00	0.00	0.00	0.00	552.02
HARRISON	0.00	150.36	9.50	45	0.20	0.00	0.00	3.00	0.00	165.06
HENRY	0.00	490.30	117.10	825	0.00	0.00	130115.00	118.01	0.00	130854.79
HOLT	0.00	0.00	0.00	0	0.00	0.00	0.00	3500.00	0.00	3500.00
HOWARD	0.00	230.11	0.00	0	0.28	0.00	0.00	70.00	0.00	300.39
IRON	0.00	56.83	0.00	0	0.00	0.00	0.00	0.00	0.00	56.83
JACKSON	0.00	0.00	0.00	0	0.00	6862.30	143439.24	0.00	0.00	150301.54
JASPER	1633.32	925.17	1018.61	3469	0.00	1424.26	0.00	0.00	0.33	5845.06
JEFFERSON	0.00	0.00	0.00	0	0.00	989.47	290353.53	0.00	0.00	291342.99
JOHNSON	0.00	0.00	80.00	350	0.00	0.00	0.00	0.00	0.00	80.00
KNOX	0.00	50.80	0.00	0	0.00	0.00	0.00	0.00	0.00	50.80
LACLEDE	0.00	0.00	0.00	0	0.00	0.00	0.00	7300.00	0.00	7300.00
LAFAYETTE	78.00	579.45	0.00	0	0.00	45.90	0.00	0.00	0.00	703.36
LAWRENCE	0.00	0.00	157.10	580	0.00	0.00	0.00	0.00	0.00	157.10
LEWIS	0.00	80.07	0.00	0	0.00	0.00	0.00	0.00	0.00	80.07
LINN	171.03	192.71	10.00	225	0.00	52.58	0.00	0.00	0.00	426.33
LIVINGSTON	0.00	0.00	0.00	0	0.00	0.00	0.00	1700.00	0.00	1700.00
MACON	151.87	412.36	0.78	0	0.00	180.53	0.11	0.00	0.00	745.65
MADISON	0.00	162.30	0.00	0	0.00	0.00	0.00	0.00	0.00	162.30
MARION	580.79	428.05	184.66	744	0.00	303.84	0.00	0.00	0.00	1497.35
MCDONALD	0.00	0.00	63.00	240	0.00	0.00	0.00	0.00	0.00	63.00
MERCER	0.00	5.86	0.00	0	0.00	0.00	0.00	0.00	0.00	5.86
MILLER	0.00	0.00	0.00	0	0.00	0.00	2468572.97	50.50	0.00	2468623.47
MONROE	0.00	1081.20	40.00	280	0.00	0.00	0.00	0.00	0.00	1194.09
MONTGOMERY	0.00	0.00	17.50	440	0.00	0.00	0.00	0.00	0.00	17.50
NEW MADRID	0.00	0.00	0.00	0	0.00	0.00	200800.00	0.00	0.00	200800.00
NEWTON	0.00	499.96	0.00	0	0.00	0.00	0.00	0.00	0.00	499.96
NODAWAY	0.00	592.51	0.00	0	0.00	0.00	0.00	0.00	0.00	651.76
OSAGE	0.00	0.00	1.50	100	0.00	0.00	16420.98	0.00	0.00	16422.48
OZARK	0.00	0.00	60.48	140	0.00	0.00	0.00	0.00	0.00	60.48
PERRY	0.00	272.82	0.00	0	0.00	0.00	0.00	0.00	0.00	272.82
PETTIS	0.00	508.43	0.00	0	0.00	0.00	0.00	0.00	0.00	508.43
PHELPS	0.00	0.00	0.00	0	0.00	0.00	0.00	2595.94	0.00	2595.94
PIKE	156.44	271.55	0.00	0	0.00	2313.37	721.91	6177.54	40.11	9680.91
PLATTE	0.00	0.00	6.00	45	0.00	1.18	164352.70	0.00	0.00	164359.88

Table 5, continued next page

Table 5, continued

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
POLK	0.00	0.00	3.00	250	0.00	0.00	0.00	0.00	0.00	3.00
PULASKI	1187.91	0.00	4.89	20	0.00	0.00	0.00	0.00	0.00	1192.80
PUTNAM	0.00	116.40	0.00	0	0.00	0.00	0.00	0.00	0.00	116.40
RALLS	0.00	0.00	17.28	355	0.00	94.00	669100.32	0.00	0.00	669211.60
RANDOLPH	0.00	498.89	0.00	0	0.00	0.00	239670.48	0.00	0.00	240169.17
RAY	0.00	26.63	0.00	0	0.00	0.00	0.00	0.00	0.00	26.63
REYNOLDS	0.07	5.93	0.00	0	0.00	0.00	776.23	0.00	0.00	782.23
RIPLEY	0.00	0.00	2898.27	1437	0.00	0.00	0.00	0.00	0.00	2898.27
SCHUYLER	21.71	50.88	0.00	0	0.00	0.00	0.00	0.00	1.80	74.39
SCOTLAND	0.00	151.13	0.00	0	0.00	0.00	0.00	0.00	0.00	151.13
SHELBY	0.00	111.49	0.00	0	0.00	0.00	0.00	0.00	0.00	111.49
ST. CHARLES	0.00	0.00	15.00	219	0.00	0.00	175211.15	0.00	0.00	175226.15
ST. FRANCOIS	0.30	0.00	0.00	0	0.00	605.05	0.00	0.00	12.85	618.20
ST. LOUIS	0.00	56291.24	0.00	0	0.00	3863.16	112413.86	0.00	0.00	178809.27
ST. LOUIS CITY	0.00	55490.00	0.00	0	0.00	117.29	0.00	0.00	0.00	55607.29
STODDARD	0.00	0.00	135.17	670	0.00	0.00	0.00	0.00	0.00	135.17
SULLIVAN	0.00	378.82	0.00	0	0.00	218.00	0.00	0.00	0.00	596.82
TANEY	66.65	1754.93	27.38	84	0.00	0.00	973372.51	5665.55	0.00	980887.03
VERNON	0.95	0.00	155.96	2549	0.00	0.00	0.00	690.00	0.00	846.91
WARREN	0.00	0.00	3.99	45	0.00	0.00	0.00	0.00	0.00	3.99
WASHINGTON	0.00	0.00	0.00	0	0.00	726.01	0.00	0.00	0.00	726.01
WAYNE	0.00	164.25	0.00	0	0.00	0.00	0.00	1222.16	0.00	1386.41
WEBSTER	0.00	0.00	108.00	380	0.00	0.00	0.00	0.00	0.00	108.00
TOTALS*	4795.01	185532.22	8169.25	30316	33.75	19724.27	9685122.63	42916.34	318.49	9954629.21

\*Figures may not add to totals because of independent rounding

Table 6: 1998 Groundwater Use by County Reported by Major Water Users  
(in million gallons per year)

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
ADAIR	0.00	13.77	0.00	0	0.00	0.00	0.00	0.00	0.00	13.77
ANDREW	5.60	88.69	0.00	0	0.00	0.00	0.00	0.00	0.00	94.29
ATCHISON	0.00	81.17	77.00	530	0.00	0.00	0.00	0.00	0.00	158.17
AUDRAIN	0.00	865.55	474.14	4277	0.00	1.35	0.00	0.00	0.00	1341.04
BARRY	229.00	364.17	0.00	0	0.00	1301.32	0.00	0.00	0.00	1982.80
BARTON	0.00	471.25	1134.16	6587	0.00	20.34	0.00	0.00	0.00	1625.75
BENTON	0.00	199.44	8.00	60	0.41	0.00	0.00	0.00	0.00	207.84
BOLLINGER	0.00	107.15	1095.18	3081	0.00	0.00	0.00	0.00	0.00	1202.33
BOONE	373.56	6555.68	146.70	1395	0.00	23.95	287.56	0.00	0.00	7399.87
BUCHANAN	0.00	0.00	3.50	130	0.00	0.00	465.08	0.00	0.00	468.58
BUTLER	80.55	317.25	56915.69	62238	0.00	0.00	0.00	150.54	0.00	57464.03
CALDWELL	0.00	47.01	0.00	0	0.00	0.00	0.00	0.00	0.00	47.01
CALLAWAY	279.15	968.75	197.44	800	0.00	0.00	151.18	0.00	0.00	1596.52
CAMDEN	258.09	282.01	0.00	0	0.00	0.00	0.00	10.00	0.00	559.52
CAPE GIRARDEAU	20.85	1120.64	407.59	1839	0.05	2377.14	0.38	1.62	0.00	3945.89
CARROLL	0.00	438.47	145.36	1009	0.18	0.00	0.00	0.00	0.00	584.02
CARTER	0.00	134.79	0.00	0	0.00	0.00	0.00	0.00	0.00	134.79
CEDAR	80.79	194.24	0.00	0	3.02	0.00	0.00	0.00	0.00	278.04
CHARITON	18.41	128.49	15.94	290	0.00	0.35	0.00	0.00	0.00	170.25
CHRISTIAN	334.12	437.99	0.00	0	1.74	138.12	0.00	0.00	100.34	1042.27
CLARK	100.57	0.37	75.43	457	0.30	2.63	0.10	0.00	0.00	201.11
CLAY	102.57	9284.03	0.00	0	0.00	2287.10	0.00	0.00	105.12	12025.47
COLE	360.32	548.94	0.00	0	0.00	136.24	0.00	0.00	0.00	1244.29
COOPER	0.00	73.53	0.00	0	0.00	0.00	0.00	0.00	0.00	73.53
CRAWFORD	0.00	450.47	0.00	0	0.00	0.00	0.00	0.00	0.00	450.47
DADE	0.30	114.50	603.12	2879	0.50	0.00	0.00	0.00	0.00	718.41
DALLAS	0.00	15.41	0.00	0	0.00	0.00	0.00	0.00	0.00	15.41
DAVIESS	69.09	147.10	0.00	0	0.00	21.00	0.00	0.00	0.00	237.19
DUNKLIN	0.00	1446.32	5374.52	24506	0.00	0.00	0.00	6.98	0.00	6835.70
FRANKLIN	1.00	2330.57	0.00	0	0.00	57.09	558.58	0.00	0.00	3005.19
GASCONADE	0.00	282.92	0.00	0	0.00	1.55	0.00	0.00	0.00	286.99
GENTRY	0.00	115.39	0.00	0	0.00	0.00	0.00	0.00	0.00	115.39
GREENE	188.82	1813.13	0.54	10	0.00	866.88	805.95	0.00	164.34	3841.41
GRUNDY	0.00	0.00	272.57	800	0.00	0.00	0.00	0.00	0.00	272.57
HARRISON	0.00	8.76	0.00	0	0.00	0.00	0.00	0.00	0.00	8.76
HENRY	0.00	93.88	20.92	110	0.00	0.00	0.00	0.00	0.00	114.80
HICKORY	10.48	28.46	0.00	0	1.88	0.00	0.00	0.00	0.00	40.82
HOLT	100.73	56.75	73.74	324	0.89	0.00	0.00	109.62	0.00	341.73
HOWARD	54.48	30.81	0.00	0	0.37	0.00	0.00	0.00	0.00	85.66
HOWELL	108.92	957.57	3.58	120	2.24	10.42	0.00	0.00	0.00	1082.72
IRON	7.27	87.14	0.00	0	0.00	98.19	0.00	0.00	2733.40	2926.00
JACKSON	4367.09	4394.33	0.00	0	0.00	548.40	23.50	0.00	152.97	9486.30
JASPER	334.41	641.65	555.36	1678	0.34	1001.21	625.90	0.00	1.67	3300.73
JEFFERSON	204.44	2211.85	0.00	0	0.00	201.34	0.00	0.00	0.00	2613.63
JOHNSON	453.05	845.06	0.00	0	0.00	63.87	0.00	0.00	0.00	1361.98
LACLEDE	0.00	1275.59	0.00	0	0.00	34.21	0.00	0.00	0.00	1309.80
LAFAYETTE	0.00	219.79	4.20	122	0.00	0.00	0.00	0.00	0.00	223.99
LAWRENCE	155.86	718.54	0.00	0	31.20	36.45	0.00	0.00	0.00	963.53
LEWIS	0.00	183.02	0.00	0	0.00	31.94	0.00	0.00	0.00	214.96
LINCOLN	0.00	638.72	170.16	585	0.00	0.00	0.00	0.00	0.00	808.88
LINN	0.00	22.54	0.00	0	0.00	0.00	0.00	0.00	0.00	22.54
LIVINGSTON	0.00	720.33	0.00	0	0.00	0.00	12.29	0.00	0.00	739.75
MADISON	0.00	51.90	0.00	0	0.00	0.00	0.00	0.00	0.00	51.90
MARIES	2.00	46.75	0.00	0	352.00	44.50	0.00	0.00	0.00	445.25
MARION	0.00	178.68	51.60	400	0.00	611.00	0.00	0.00	0.00	841.28
MCDONALD	75.90	800.96	0.00	0	0.00	318.81	0.00	0.00	0.00	1195.67
MERCER	0.00	60.45	0.00	0	0.00	0.00	0.00	0.00	0.00	60.45
MILLER	21.90	341.59	0.00	0	0.00	0.00	0.00	0.00	0.00	363.49
MISSISSIPPI	0.23	499.01	5957.99	14726	0.00	0.00	0.00	0.00	0.00	6457.23
MONITEAU	105.51	579.54	0.00	0	1.28	13.46	0.00	0.00	0.00	699.79
MONTGOMERY	0.00	80.78	30.00	350	0.00	0.00	0.00	0.00	0.00	113.00
MORGAN	70.97	38.20	0.00	0	0.00	30.05	0.00	0.00	0.00	139.22
NEW MADRID	99.75	411.49	27903.29	76378	0.00	426.98	347.66	0.00	0.00	29191.18
NEWTON	0.00	816.94	0.00	0	4.50	154.22	0.00	0.00	0.00	975.66
NODAWAY	0.00	29.77	6.00	60	0.00	0.00	0.00	0.00	0.00	35.77
OREGON	48.20	151.65	0.00	0	0.67	9.37	0.00	0.00	0.00	209.88
OSAGE	0.00	236.94	0.00	0	0.00	0.00	95.33	0.00	0.00	332.28

Table 6, continued next page



Table 6, continued

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
OZARK	0.00	70.89	0.00	0	0.00	0.00	0.00	0.00	0.00	74.89
PEMISCOT	0.00	1110.95	6055.28	24371	0.00	17.44	0.00	439.42	0.00	7623.08
PERRY	0.18	145.72	0.00	0	0.00	1.66	0.00	0.00	0.00	149.97
PETTIS	0.00	423.96	0.00	0	0.00	705.46	0.00	0.00	0.00	1129.42
PHELPS	0.94	1187.29	0.00	0	0.94	0.00	0.00	0.00	0.00	1189.16
PIKE	0.00	0.00	70.50	600	0.00	1.79	0.00	12.00	0.04	84.34
PLATTE	0.00	821.57	0.00	0	23.28	31.08	230.46	0.00	0.00	1106.40
POLK	0.00	521.79	44.10	260	0.02	0.00	0.00	0.00	0.00	565.91
PULASKI	51.03	863.64	0.11	0	4.08	11.03	0.00	0.00	0.00	929.89
RAY	0.00	714.52	0.00	0	0.00	0.00	0.00	0.00	0.00	714.52
REYNOLDS	91.96	8.25	0.00	0	3.14	7.79	0.11	0.00	7005.34	7116.58
RIPLEY	0.00	119.80	4533.40	5746	0.00	0.00	0.00	0.00	0.00	4653.20
SALINE	0.00	1454.19	0.00	0	0.00	0.00	0.00	0.00	0.00	1454.19
SCOTT	1.53	1573.75	6094.01	16583	2.99	15.87	1250.00	1.00	0.00	8942.14
SHANNON	0.00	130.50	0.00	0	0.00	0.00	0.00	0.00	0.00	130.50
ST. CHARLES	0.00	7909.93	136.00	640	0.00	562.86	0.00	0.04	0.00	8476.01
ST. CLAIR	0.00	75.75	0.00	0	0.00	0.00	0.00	0.00	0.00	75.75
ST. FRANCOIS	86.72	747.74	0.00	0	0.00	44.79	0.00	0.00	0.95	880.20
ST. LOUIS	0.00	1357.95	80.00	120	0.00	498.26	0.00	0.00	0.00	1936.21
STE. GENEVIEVE	79.49	230.10	0.00	0	2.03	68.28	0.00	7.60	0.00	473.49
STODDARD	270.33	322.29	23796.33	50721	2.22	462.98	0.00	0.00	0.00	24854.15
STONE	3.15	538.26	2.62	50	0.00	0.49	0.00	0.00	0.00	544.52
TANEY	96.11	956.56	0.00	0	0.00	3.21	0.00	460.07	0.00	1518.27
TEXAS	0.09	528.30	29.94	48	0.00	195.50	0.00	0.00	0.00	753.83
VERNON	3.07	912.38	9.59	480	0.00	129.67	0.00	0.00	0.00	1054.71
WARREN	41.28	412.76	11.50	300	0.00	32.76	0.00	0.00	0.00	498.31
WASHINGTON	17.52	244.07	0.00	0	0.00	1677.54	0.00	0.00	176.00	2115.13
WAYNE	0.37	19.27	0.00	510	0.00	0.00	0.00	267.84	0.00	287.48
WEBSTER	0.00	431.54	4.70	30	0.00	0.00	0.00	0.00	0.00	436.24
WRIGHT	0.00	418.64	0.00	0	0.64	10.59	0.00	0.00	0.00	431.75
TOTALS*	9467.81	71151.97	142591.79	306200	440.91	15348.52	4854.07	1466.73	10440.18	256608.72

\*Figures may not add to totals because of independent rounding

Table 7: 1999 Surface Water Use by County Reported by Major Water Users  
(in million gallons per year)

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
ADAIR	0.00	932.18	10.00	200	0.00	0.00	0.00	0.00	0.00	942.18
ANDREW	0.00	83.67	10.00	50	0.00	0.00	0.00	0.00	0.00	94.98
AUDRAIN	0.05	0.99	1506.59	9531	9.84	119.01	0.00	18.07	0.00	1654.55
BARRY	0.00	0.00	0.00	0	0.00	0.00	0.00	4380.00	0.00	4380.00
BARTON	0.00	44.18	325.64	2240	0.00	0.00	0.00	0.00	0.00	369.83
BATES	0.00	568.70	9.91	82	0.00	0.00	0.00	0.00	0.00	604.77
BENTON	0.00	0.00	0.00	0	0.00	0.00	3435048.82	0.00	0.00	3435048.82
BOONE	0.00	0.00	83.20	220	0.00	0.00	0.00	0.00	0.00	83.20
BUCHANAN	0.00	6327.37	0.00	0	0.00	0.00	24095.00	0.00	0.00	30422.37
BUTLER	0.38	1083.21	593.79	681	0.00	60.00	0.00	1.64	0.00	1739.01
CALDWELL	0.00	63.55	0.00	0	0.00	0.00	0.00	0.00	0.00	63.55
CALLAWAY	7.96	0.00	210.75	1060	0.00	0.00	8035.03	0.00	0.00	8253.75
CAMDEN	0.00	0.00	116.00	330	0.00	0.00	58867.00	20.00	0.00	59003.00
CAPE GIRARDEAU	0.00	1625.16	25.66	210	0.00	1003.00	0.00	0.00	288.00	2941.82
CASS	0.00	613.31	104.12	740	0.00	0.00	0.00	0.00	0.00	721.83
CEDAR	0.00	0.00	3.00	100	0.00	0.00	253203.09	0.00	0.00	253206.09
CHARITON	0.00	0.00	44.60	360	0.00	0.00	0.00	0.00	0.00	44.60
CHRISTIAN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
CLAY	179.01	46080.53	0.00	0	10.59	0.00	0.00	0.00	0.00	46270.12
CLINTON	0.00	502.00	0.00	0	1.68	161.10	0.00	0.00	20.66	720.70
COLE	877.77	75.29	2.16	49	0.00	519.77	0.00	0.00	0.00	1474.99
COOPER	0.00	439.65	0.00	0	0.00	0.00	0.00	0.00	0.00	486.32
DADE	0.00	0.00	133.89	993	0.00	0.00	0.00	0.00	0.00	133.89
DEKALB	0.00	3.81	0.00	0	0.00	0.00	0.00	0.00	0.00	3.81
DENT	0.00	0.00	40.00	102	0.00	0.00	0.00	9406.78	0.00	9446.78
DOUGLAS	0.00	0.00	30.00	110	0.00	0.00	0.00	0.00	0.00	30.00
DUNKLIN	0.00	0.00	59.55	189	0.00	0.00	0.00	8.64	0.00	68.19
FRANKLIN	0.00	0.00	0.00	0	0.00	0.00	366815.14	0.00	0.00	366815.14
GASCONADE	0.00	0.00	18.77	187	0.00	0.00	0.00	0.00	0.00	18.77
GENTRY	0.00	174.88	0.00	0	0.00	0.00	0.00	0.00	0.00	174.88
GREENE	0.00	10658.08	1.30	12	0.00	0.00	66294.01	0.00	0.00	76953.39
GRUNDY	0.00	598.85	2.25	150	0.00	0.00	0.00	0.00	0.00	601.10
HARRISON	0.00	147.58	9.50	45	0.23	0.00	0.00	3.00	6.98	167.28
HENRY	0.00	494.81	117.10	825	0.00	0.00	130115.00	118.01	0.00	130848.02
HOLT	0.00	0.00	0.00	0	0.00	0.00	0.00	2546.40	0.00	2546.40
HOWARD	0.00	226.02	0.00	0	0.26	0.00	0.00	70.00	0.00	296.28
IRON	0.00	58.50	0.00	0	0.00	0.00	0.00	0.00	0.00	58.50
JACKSON	0.00	0.00	0.00	0	0.00	6862.30	107834.66	0.00	0.00	114696.96
JASPER	1661.18	937.73	1027.42	3654	0.00	1496.21	0.00	0.00	0.33	5862.05
JEFFERSON	0.00	0.00	0.00	0	0.00	989.47	290353.53	0.00	0.00	291342.99
JOHNSON	0.00	0.00	57.60	360	0.00	0.00	0.00	0.00	0.00	57.60
KNOX	0.00	48.45	0.00	0	0.00	0.00	0.00	0.00	0.00	48.45
LACLEDE	0.00	0.00	0.00	0	0.00	0.00	0.00	7300.00	0.00	7300.00
LAFAYETTE	82.21	658.46	0.00	0	0.00	45.85	0.00	0.00	0.00	786.53
LAWRENCE	0.00	0.00	177.10	700	0.00	0.00	0.00	0.00	0.00	177.10
LEWIS	0.00	79.20	0.00	0	0.00	0.00	0.00	0.00	0.00	79.20
LINN	186.04	195.75	10.00	225	0.00	54.02	0.00	0.00	0.00	445.80
LIVINGSTON	0.00	0.00	0.00	0	0.00	0.00	0.00	1700.00	0.00	1700.00
MAGON	150.73	438.13	3.00	0	0.00	100.00	100.00	0.00	0.00	791.86
MADISON	157.78	0.58	0.00	0	0.34	0.00	0.00	0.00	0.00	166.82
MARION	581.63	366.29	184.66	744	0.00	337.32	0.00	0.00	0.00	1469.90
MCDONALD	0.00	0.00	63.00	240	0.00	0.00	0.00	0.00	0.00	63.00
MILLER	0.00	0.00	0.00	0	0.00	0.00	2468572.97	50.50	0.00	2468623.47
MONROE	0.00	1199.96	45.64	280	0.00	0.00	0.00	0.00	0.00	1245.60
MONTGOMERY	0.00	0.00	53.00	440	0.00	0.00	0.00	0.00	0.00	53.00
NEW MADRID	0.00	0.00	0.00	0	0.00	0.00	200800.00	0.00	0.00	200800.00
NEWTON	0.00	590.22	0.00	0	0.00	0.00	0.00	0.00	0.00	590.22
NODAWAY	0.00	625.71	0.00	0	0.00	0.00	0.00	0.00	0.00	625.71
OSAGE	0.00	0.00	1.20	100	0.00	0.00	16044.85	0.00	0.00	16046.05
OZARK	0.00	0.00	38.00	140	0.00	0.00	0.00	0.00	0.00	38.00
PERRY	0.00	280.66	0.00	0	0.00	0.00	0.00	0.00	0.00	280.66
PETTIS	0.00	508.43	0.00	0	0.00	0.00	0.00	0.00	0.00	508.43
PHelps	0.00	0.00	0.00	0	0.00	0.00	0.00	2595.94	0.00	2595.94
PIKE	158.13	280.15	0.00	0	0.00	2315.25	698.81	5849.82	83.85	9393.72
PLATTE	0.00	0.00	12.00	45	0.00	0.00	164352.70	0.00	0.00	164364.70
POLK	0.00	0.00	3.00	250	0.00	0.00	0.00	0.00	0.00	3.00
PULASKI	1478.44	0.00	4.85	20	0.00	0.00	0.00	0.00	0.00	1483.29
PUTNAM	0.00	119.00	0.00	0	0.00	0.00	0.00	0.00	0.00	119.00
RALLS	0.00	0.00	49.50	495	0.00	94.00	483567.27	0.00	0.00	483710.77

Table 7, continued next page

Table 7, continued

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
RANDOLPH	0.00	497.63	0.00	0	0.00	0.00	294903.69	250.00	0.00	295651.32
RAY	0.00	16.53	0.00	0	0.00	0.00	0.00	0.00	0.00	16.53
REYNOLDS	0.07	2.84	0.00	0	0.00	0.00	776.23	0.00	0.00	779.14
RIPLEY	0.00	0.00	1545.37	1427	0.00	0.00	0.00	0.00	0.00	1545.37
SCHUYLER	23.63	47.14	0.00	0	0.00	0.00	0.00	0.00	2.42	77.58
SCOTLAND	0.00	153.34	7.47	110	0.00	0.00	0.00	0.00	0.00	160.81
SHELBY	0.00	161.50	0.00	0	0.00	0.00	0.00	0.00	0.00	161.50
ST. CHARLES	0.00	0.00	29.22	259	5.11	0.00	175211.15	0.00	0.00	175245.48
ST. FRANCOIS	0.19	0.00	0.00	0	0.00	331.79	0.00	0.00	0.00	331.98
ST. LOUIS	0.00	61596.13	0.00	0	0.00	3303.60	112413.86	0.00	0.00	184049.25
ST. LOUIS CITY	0.00	54677.00	0.00	0	0.00	122.57	0.00	0.00	0.00	54799.57
STODDARD	0.00	0.00	135.17	670	0.00	0.00	0.00	0.00	0.00	135.17
SULLIVAN	0.00	385.65	0.00	0	0.00	239.00	0.00	0.00	0.00	624.65
TANEY	64.91	1925.16	27.38	84	0.00	0.00	990255.07	5665.55	0.00	997938.07
VERNON	0.95	0.00	178.78	1299	0.00	0.00	0.00	862.00	0.00	1041.73
WARREN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
WASHINGTON	0.00	0.00	0.00	0	0.00	328.50	0.00	0.00	0.00	328.50
WAYNE	0.00	164.25	0.00	0	0.00	0.00	0.00	1222.16	0.00	1386.41
WEBSTER	0.00	0.00	144.00	451	0.00	0.00	0.00	0.00	0.00	144.00
TOTALS*	5611.05	196758.24	7255.15	30459	28.05	18482.75	9648357.87	42068.50	402.23	9926608.85

\*Figures may not add to totals because of independent rounding



Table 8: 1999 Groundwater Use by County Reported by Major Water Users  
(in million gallons per year)

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
ADAIR	0.00	4.59	0.00	0	0.00	0.00	0.00	0.00	0.00	4.59
ANDREW	3.72	94.54	0.00	0	0.00	0.00	0.00	0.00	0.00	99.66
ATCHISON	0.00	78.17	103.80	1005	0.00	0.00	0.00	0.00	0.00	181.97
AUDRAIN	0.00	905.10	600.86	4257	0.00	0.99	0.00	0.00	0.00	1506.95
BARRY	222.57	370.96	0.00	0	0.00	1374.66	0.00	0.00	0.00	2054.83
BARTON	0.00	565.71	1095.88	6307	0.00	22.26	0.00	0.00	0.00	1683.86
BENTON	0.00	193.12	2.50	60	0.41	0.00	0.00	3.80	0.00	199.82
BOLLINGER	0.00	107.15	1095.18	3081	0.00	0.00	0.00	0.00	0.00	1202.33
BOONE	337.53	7096.58	189.22	1695	0.00	23.95	261.28	0.00	0.00	7963.35
BUCHANAN	0.00	0.00	3.50	130	0.00	0.00	501.23	0.00	0.00	504.73
BUTLER	78.88	333.34	57869.69	63198	0.00	0.00	0.00	0.38	0.00	58282.29
CALDWELL	0.00	47.67	0.00	0	0.00	0.00	0.00	0.00	0.00	47.67
CALLAWAY	303.93	1026.59	185.68	750	0.00	0.00	151.18	0.00	0.00	1675.33
CAMDEN	267.74	255.28	0.00	0	0.00	0.00	0.00	10.00	0.00	539.63
CAPE GIRARDEAU	20.95	1234.68	425.53	1966	0.05	2630.51	0.38	0.00	0.00	4539.05
CARROLL	0.00	466.74	131.66	869	0.17	0.00	0.00	0.00	0.00	598.57
CARTER	0.00	136.42	0.00	0	0.00	0.00	0.00	0.00	0.00	136.42
CEDAR	82.73	240.99	0.00	0	5.26	0.00	0.00	0.00	0.00	351.29
CHARITON	17.95	126.28	30.93	450	0.00	0.43	0.00	0.00	0.00	190.24
CHRISTIAN	349.63	530.24	0.00	0	1.48	137.41	0.00	0.00	0.00	1245.60
CLARK	106.13	0.26	75.43	457	0.48	3.80	0.08	0.00	0.00	194.07
CLAY	114.17	10168.92	0.00	0	0.00	2287.10	0.00	0.00	162.34	12732.53
COLE	563.92	673.62	0.00	0	0.00	179.47	0.00	0.00	0.00	1417.01
COOPER	0.00	84.75	0.00	0	0.00	0.00	0.00	0.00	0.00	84.75
CRAWFORD	0.00	408.26	0.00	0	0.00	0.00	0.00	0.00	0.00	408.26
DADE	0.00	156.32	602.24	2879	0.45	0.00	0.00	0.00	0.00	759.01
DALLAS	0.00	14.56	0.00	0	0.00	0.00	0.00	0.00	0.00	14.56
DAVIES	67.59	175.85	0.00	0	0.00	18.31	0.00	0.00	0.00	261.74
DUNKLIN	0.00	1544.26	5949.05	25468	0.00	0.00	93.60	0.50	0.00	7590.16
FRANKLIN	1.00	2500.14	0.00	0	0.00	49.98	558.58	0.00	0.00	3109.71
GASCONADE	0.00	275.73	0.00	0	0.00	1.55	0.00	0.00	0.00	301.56
GENTRY	0.00	117.54	0.00	0	0.20	0.00	0.00	0.00	0.00	117.74
GREENE	190.73	1809.22	0.54	10	0.00	861.06	747.33	0.00	148.01	3756.88
GRUNDY	0.00	0.00	239.00	800	0.00	0.00	0.00	0.00	0.00	239.00
HARRISON	0.00	8.76	0.00	0	0.00	0.00	0.00	0.00	0.00	8.76
HENRY	0.00	79.06	20.92	110	0.00	0.00	0.00	0.00	0.00	99.98
HICKORY	8.03	30.43	0.00	0	1.88	0.00	0.00	0.00	0.00	40.35
HOLT	121.17	61.17	93.71	534	0.93	0.00	0.00	120.87	0.00	397.84
HOWARD	63.15	27.44	0.00	0	0.36	0.00	0.00	0.00	0.00	96.42
HOWELL	118.46	956.22	13.87	120	4.42	10.96	0.00	0.00	0.00	1103.93
IRON	6.74	92.35	0.00	0	0.00	98.19	0.00	0.00	2733.40	2930.68
JACKSON	5094.14	5125.92	0.00	0	0.00	584.43	41.60	0.00	216.38	11062.47
JASPER	360.43	677.86	555.36	1863	0.33	1020.26	682.56	0.00	1.67	3452.81
JEFFERSON	216.57	2439.96	2.99	0	0.00	571.87	0.00	0.00	0.00	3231.39
JOHNSON	470.52	939.61	0.00	0	0.00	58.90	0.00	0.00	0.00	1469.03
LACLEDE	0.00	1365.70	0.00	0	0.00	0.00	0.00	0.00	0.00	1365.70
LAFAYETTE	0.00	230.28	7.20	110	0.00	0.00	0.00	0.00	0.00	237.48
LAWRENCE	156.91	752.72	20.40	160	29.70	37.07	0.00	0.00	0.00	1033.32
LEWIS	0.00	196.41	0.00	0	0.00	14.99	0.00	0.00	0.00	211.41
LINCOLN	0.00	721.03	153.87	582	0.00	0.00	0.00	0.00	0.00	874.90
LINN	0.00	24.19	0.00	0	0.00	0.00	0.00	0.00	0.00	26.63
LIVINGSTON	0.00	779.97	0.00	0	0.00	0.00	15.03	0.00	0.00	798.30
MADISON	0.00	45.30	0.00	0	0.00	0.00	0.00	0.00	0.00	45.30
MARIES	3.00	52.05	0.00	0	352.00	48.55	0.00	0.00	0.00	455.60
MARION	0.00	187.46	51.60	400	0.00	661.00	0.00	0.00	0.00	900.06
MCDONALD	0.00	944.11	0.00	0	0.00	396.29	0.00	0.00	0.00	1340.40
MERCER	0.00	71.51	0.00	0	0.00	0.00	0.00	0.00	0.00	71.51
MILLER	21.90	352.71	0.00	0	0.00	0.00	0.00	0.00	0.00	374.61
MISSISSIPPI	0.23	508.14	6080.08	15046	0.00	0.00	0.00	0.00	0.00	6588.45
MONITEAU	112.04	645.54	0.00	0	1.46	14.47	0.00	0.00	0.00	773.51
MONTGOMERY	0.00	79.60	30.00	350	0.00	0.00	0.00	0.00	0.00	112.04
MORGAN	71.03	42.22	0.00	0	0.00	30.37	0.00	0.00	0.00	143.62
NEW MADRID	99.75	365.58	29255.68	77055	0.00	453.67	326.66	0.00	0.00	30501.34
NEWTON	0.00	791.83	0.00	0	6.50	116.63	0.00	0.00	0.00	915.22
NODAWAY	0.00	31.77	6.00	60	0.00	0.00	0.00	0.00	0.00	37.77
OREGON	44.63	151.00	0.00	0	0.62	8.68	0.00	0.00	0.00	204.94
OSAGE	0.00	182.16	0.00	0	0.00	0.00	95.15	0.00	0.00	277.32

Table 8, continued next page

Table 8, continued

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
OZARK	0.00	76.85	0.00	0	0.00	0.00	0.00	0.00	0.00	76.85
PEMISCOT	0.00	1092.85	7781.25	25653	0.00	9.54	0.00	439.42	0.00	9323.06
PERRY	0.00	141.23	0.00	0	0.00	3.23	0.00	0.00	0.00	147.27
PETTIS	0.00	425.35	0.00	0	0.00	714.53	0.00	0.00	0.00	1139.88
PHELPS	0.94	1271.29	0.00	0	0.94	0.00	0.00	0.00	0.00	1273.16
PIKE	0.00	0.00	70.50	600	0.00	2.03	0.00	12.00	0.10	84.63
PLATTE	0.00	850.98	0.00	0	20.70	48.37	230.46	0.00	0.00	1150.51
POLK	0.00	570.22	81.10	260	0.02	0.00	0.00	0.00	0.00	651.34
PULASKI	75.09	815.40	0.15	0	5.23	11.32	0.00	0.00	0.00	907.19
RAY	0.00	815.99	0.00	0	0.00	0.00	0.00	0.00	0.00	815.99
REYNOLDS	91.96	8.25	0.00	0	3.14	7.79	0.11	0.00	7005.34	7116.58
RIPLEY	0.00	109.72	4527.19	5854	0.00	0.00	0.00	0.00	0.00	4636.91
SALINE	0.00	1531.87	0.00	0	0.00	0.00	0.00	0.00	0.00	1531.87
SCOTT	1.53	1725.32	5631.87	17447	2.99	26.31	1330.00	1.00	0.00	8728.07
SHANNON	0.00	131.90	0.00	0	0.00	0.00	0.00	0.00	0.00	131.90
ST. CHARLES	0.00	8339.46	152.38	810	9.29	614.89	0.00	0.04	0.00	9737.66
ST. CLAIR	0.00	79.90	0.00	0	0.00	0.00	0.00	0.00	0.00	79.90
ST. FRANCOIS	74.68	776.92	0.00	0	0.00	25.19	0.00	0.00	0.00	876.78
ST. LOUIS	0.00	1638.33	77.00	120	0.00	442.90	0.00	0.00	0.00	2177.21
STE. GENEVIEVE	88.47	247.53	0.00	0	2.06	95.09	0.00	0.00	0.00	466.44
STODDARD	351.92	399.33	25033.15	52055	6.80	381.04	0.00	0.00	0.00	26174.25
STONE	3.29	578.15	2.62	50	0.00	0.48	0.00	0.00	0.00	584.54
TANEY	104.55	984.85	0.00	0	0.00	2.49	0.00	460.07	0.00	1551.96
TEXAS	0.09	510.16	30.00	50	0.00	235.82	0.00	0.00	0.00	776.07
VERNON	3.07	922.97	9.59	480	0.00	102.91	0.00	0.00	0.00	1038.53
WARREN	46.50	335.52	20.14	490	3.25	119.40	0.00	0.00	0.00	531.29
WASHINGTON	17.52	229.14	0.00	0	0.00	400.04	0.00	0.00	176.00	822.70
WAYNE	0.37	22.01	0.00	510	0.00	0.00	0.00	267.84	0.00	290.22
WEBSTER	0.00	422.56	10.00	60	0.00	0.00	0.00	0.00	0.00	432.56
WRIGHT	0.00	544.90	0.00	0	0.00	0.00	0.00	0.00	0.00	546.71
TOTALS*	10557.84	76302.61	148319.31	314211	461.10	15161.17	5035.23	1315.92	10443.24	268980.27

\*Figures may not add to totals because of independent rounding



Table 9: 2000 Surface Water Use by County Reported by Major Water Users  
(in million gallons per year)

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
ADAIR	0.00	1058.63	0.00	0	0.00	0.00	0.00	0.00	0.00	1058.63
ANDREW	0.00	83.18	19.51	195	0.00	0.00	0.00	0.00	0.00	102.69
AUDRAIN	0.05	0.00	939.68	6651	9.84	110.00	0.00	18.07	0.00	1077.65
BARRY	0.00	0.00	0.00	0	0.00	0.00	0.00	4380.00	0.00	4380.00
BARTON	0.00	84.72	311.13	2298	0.00	0.00	0.00	0.00	0.00	395.85
BATES	0.00	537.22	20.31	165	0.00	0.00	0.00	0.00	0.00	589.96
BENTON	0.00	0.00	0.00	0	0.00	0.00	623056.70	0.00	0.00	623056.70
BOONE	0.00	0.00	83.20	220	0.00	0.00	0.00	0.00	0.00	83.20
BUCHANAN	0.00	5766.86	0.00	0	0.00	0.00	18397.80	0.00	0.00	24164.66
BUTLER	0.00	1109.90	493.20	691	0.00	60.00	0.00	0.00	0.00	1663.10
CALDWELL	0.00	65.60	0.00	0	0.00	0.00	0.00	0.00	0.00	65.60
CALLAWAY	7.96	0.00	167.56	740	0.00	0.00	8035.03	0.00	0.00	8210.55
CAMDEN	0.00	0.00	115.00	329	0.00	0.00	58867.00	25.00	0.00	59007.00
CAPE GIRARDEAU	0.00	1785.03	24.35	220	0.00	963.50	0.00	0.00	311.50	3084.38
CASS	0.00	670.03	104.12	740	0.00	0.00	0.00	0.00	0.00	774.15
CEDAR	0.00	0.00	1.00	100	0.00	0.00	87160.37	0.00	0.00	87161.37
CHARITON	0.00	0.00	44.60	360	0.00	0.00	0.00	0.00	0.00	44.60
CHRISTIAN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
CLAY	226.00	50137.31	0.00	0	7.12	0.00	0.00	0.00	0.00	50370.43
CLINTON	0.00	518.84	0.00	0	1.54	163.52	0.00	0.00	21.28	753.25
COLE	1101.88	53.12	2.16	49	0.00	572.76	0.00	0.00	0.00	1729.83
COOPER	0.00	436.91	0.00	0	0.00	0.00	0.00	0.00	0.00	491.30
DADE	0.00	0.00	133.89	993	0.00	0.00	0.00	0.00	0.00	133.89
DAVIESS	0.00	0.00	0.00	0	0.00	5.00	0.00	0.00	0.00	5.00
DEKALB	0.00	4.45	0.00	0	0.00	0.00	0.00	0.00	0.00	4.45
DENT	0.00	0.00	40.00	102	0.00	0.00	0.00	9406.78	0.00	9446.78
DOUGLAS	0.00	0.00	30.00	110	0.00	0.00	0.00	0.00	0.00	30.00
DUNKLIN	0.00	0.00	125.79	294	0.00	0.00	0.00	5.18	0.00	130.98
FRANKLIN	0.00	0.00	0.00	0	0.00	0.00	366815.14	0.00	0.00	366815.14
GASCONADE	0.00	0.00	15.17	117	0.00	0.00	0.00	0.00	0.00	15.17
GENTRY	0.00	182.68	0.00	0	0.00	42.45	0.00	0.00	0.00	225.13
GREENE	0.00	14249.61	1.38	15	0.00	0.00	73108.48	0.00	0.00	87359.47
GRUNDY	0.00	671.68	2.25	150	0.00	0.00	0.00	0.00	0.00	673.93
HARRISON	0.00	165.76	9.50	45	0.23	5.00	0.00	3.00	5.66	189.15
HENRY	0.00	501.56	117.10	825	0.00	0.00	143573.00	118.01	0.00	144318.67
HOLT	0.00	0.00	0.00	0	0.00	0.00	0.00	3077.40	0.00	3077.40
HOWARD	0.00	230.08	0.00	0	0.30	0.00	0.00	70.00	0.00	300.38
IRON	0.00	67.79	0.00	0	0.00	0.00	0.00	0.00	0.00	67.79
JACKSON	0.00	0.00	0.00	0	0.00	6862.30	121578.44	0.00	0.00	128440.74
JASPER	1645.29	924.52	967.66	3504	0.00	1273.50	0.00	0.00	0.28	5494.21
JEFFERSON	0.00	0.00	0.00	0	0.00	989.47	290353.53	0.00	0.00	291342.99
JOHNSON	0.00	0.00	60.00	360	0.00	0.00	0.00	0.00	0.00	60.00
KNOX	0.00	50.58	0.00	0	0.00	0.00	0.00	0.00	0.00	50.58
LACLEDE	0.00	0.00	0.00	0	0.00	0.00	0.00	7300.00	0.00	7300.00
LAFAYETTE	77.09	705.77	36.72	255	0.00	53.48	0.00	0.00	0.00	873.06
LAWRENCE	0.00	0.00	177.10	700	0.00	0.00	0.00	0.00	0.00	177.10
LEWIS	0.00	80.66	0.00	0	0.00	0.00	0.00	0.00	0.00	80.66
LINN	186.39	202.96	10.00	225	0.00	49.03	0.00	0.00	0.00	448.38
LIVINGSTON	0.00	0.00	0.00	0	0.00	0.00	0.00	1700.00	0.00	1700.00
MACON	132.37	423.44	0.78	0	0.00	223.82	0.11	0.00	0.00	780.52
MADISON	165.46	0.00	0.00	0	0.35	0.00	0.00	0.00	0.00	171.95
MARION	605.16	431.66	182.36	727	0.00	340.61	0.00	0.00	0.00	1559.79
MCDONALD	0.00	0.00	63.00	240	0.00	0.00	0.00	0.00	0.00	63.00
MERCER	0.00	0.00	0.00	0	0.00	30.10	0.00	0.00	0.00	30.10
MILLER	0.00	0.00	0.00	0	0.00	0.00	2468572.97	59.50	0.00	2468632.47
MONROE	0.00	1252.40	22.82	280	0.00	0.00	0.00	0.00	0.00	1275.22
MONTGOMERY	0.00	0.00	6.21	230	0.00	0.00	0.00	0.00	0.00	6.21
NEW MADRID	0.00	0.00	0.00	0	0.00	0.00	303744.55	0.00	0.00	303744.55
NEWTON	0.00	699.34	0.00	0	0.00	0.00	0.00	0.00	0.00	699.34
NODAWAY	0.00	606.00	0.00	0	0.00	0.00	0.00	0.00	0.00	606.00
OSAGE	0.00	0.00	1.50	100	0.00	0.00	22520.57	0.00	0.00	22522.07
OZARK	0.00	0.00	38.00	140	0.00	0.00	0.00	0.00	0.00	38.00
PERRY	0.00	289.45	0.00	0	0.00	0.00	0.00	0.00	0.00	289.45
PETTIS	0.00	612.31	0.00	0	0.00	0.00	0.00	0.00	0.00	612.31
PHELPS	0.00	0.00	0.00	0	0.00	0.00	0.00	2595.94	0.00	2595.94
PIKE	173.99	316.01	0.00	0	0.00	2009.11	701.90	3503.76	350.08	7054.85
PLATTE	0.00	0.00	12.00	50	0.00	0.00	121412.10	0.00	0.00	121424.10
POLK	0.00	0.00	152.06	300	0.00	0.00	0.00	0.00	0.00	152.06
PULASKI	1678.17	0.00	4.85	20	0.00	0.00	0.00	0.00	0.00	1683.03
PUTNAM	0.00	139.50	0.00	0	0.00	80.18	0.00	0.00	0.00	219.68
RALLS	0.00	0.00	20.50	220	0.00	94.00	85965.33	0.00	0.00	86079.83

Table 9, continued next page

Table 9, continued

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
RANDOLPH	0.00	550.00	0.00	0	0.00	0.00	294903.69	250.00	0.00	295703.68
REYNOLDS	0.07	1.12	0.00	0	0.00	0.00	776.23	0.00	0.00	777.41
RIPLEY	0.00	0.00	1545.37	1427	0.00	0.00	0.00	0.00	0.00	1545.37
SCHUYLER	24.32	33.93	0.00	0	0.00	0.00	0.00	0.00	2.12	60.36
SCOTLAND	0.00	153.28	0.00	0	0.00	0.00	0.00	0.00	0.00	153.28
SHELBY	0.00	127.25	0.00	0	0.00	0.00	0.00	0.00	0.00	127.25
ST. CHARLES	0.00	0.00	14.21	219	3.21	0.00	175211.15	0.00	0.00	175228.57
ST. FRANCOIS	0.20	0.00	0.00	0	0.00	364.97	0.00	0.00	0.00	365.18
ST. LOUIS	0.00	58254.12	0.00	0	0.00	3873.83	112413.86	0.00	0.00	179950.17
ST. LOUIS CITY	0.00	53676.00	0.00	0	0.00	80.55	53.70	0.00	0.00	53810.24
STODDARD	0.00	0.00	135.17	670	0.00	0.00	0.00	0.00	0.00	135.17
SULLIVAN	0.00	367.68	0.00	0	0.00	258.91	0.00	0.00	0.00	626.59
TANEY	63.86	2298.10	30.38	84	0.00	0.00	447999.68	5665.52	0.00	456057.54
VERNON	0.95	0.00	195.57	1249	0.00	0.00	0.00	1953.97	0.00	2150.49
WARREN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
WASHINGTON	0.00	0.00	0.00	0	0.00	246.50	0.00	0.00	0.00	246.50
WAYNE	0.00	164.25	0.00	0	0.00	0.00	0.00	1222.16	0.00	1386.41
WEBSTER	0.00	0.00	146.80	598	0.00	0.00	0.00	0.00	0.00	146.80
TOTALS*	6089.21	200741.29	6623.97	27007	22.59	18752.59	5825221.30	41354.30	690.92	6105737.50

\*Figures may not add to totals because of independent rounding

Table 10: 2000 Groundwater Use by County Reported by Major Water Users  
(in million gallons per year)

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
ANDREW	6.02	106.76	0.00	0	0.00	0.00	0.00	0.00	0.00	112.78
ATCHISON	0.00	78.17	103.80	1005	0.00	0.00	0.00	0.00	0.00	181.97
AUDRAIN	0.00	817.96	79.26	670	0.00	0.00	0.00	0.00	0.00	897.22
BARRY	217.02	523.41	0.00	0	0.00	1373.13	0.00	0.00	0.00	2113.55
BARTON	0.00	550.18	1127.93	6427	0.00	21.59	0.00	0.00	0.00	1699.70
BENTON	0.00	198.49	8.91	60	0.47	0.00	0.00	386.41	0.00	594.29
BOLLINGER	0.00	0.93	1098.18	3081	0.00	0.00	0.00	0.00	0.00	1099.11
BOONE	236.10	6439.16	106.57	1295	0.00	23.95	296.90	0.00	0.00	7115.10
BUCHANAN	0.00	0.00	3.50	130	0.00	0.00	481.55	0.00	0.00	485.05
BUTLER	79.13	333.64	58406.70	64014	0.00	0.00	0.00	190.69	0.00	59010.16
CALDWELL	0.00	49.53	0.00	0	0.00	0.00	0.00	0.00	0.00	49.53
CALLAWAY	285.99	958.45	186.00	750	0.00	0.00	151.18	0.00	0.00	1587.59
CAMDEN	261.37	272.82	0.00	0	0.00	0.00	0.00	15.00	0.00	549.20
CAPE GIRARDEAU	19.94	1295.20	414.59	1859	0.05	3149.04	0.38	0.00	0.00	4903.88
CARROLL	0.00	442.83	130.76	1109	0.19	0.00	0.00	0.00	0.00	573.79
CARTER	0.00	347.91	0.00	0	0.00	0.00	0.00	0.00	0.00	347.91
CEDAR	82.90	230.10	0.00	0	1.38	0.00	0.00	0.00	0.00	343.86
CHARITON	18.11	135.83	26.96	450	0.00	0.32	0.00	0.00	0.00	195.97
CHRISTIAN	372.72	522.03	0.00	0	1.59	154.56	0.00	0.00	0.00	1322.89
CLARK	97.05	0.39	75.43	457	0.18	3.84	0.02	0.00	0.00	188.47
CLAY	118.48	9957.36	0.00	0	0.00	2288.10	0.00	0.00	347.49	12711.44
COLE	594.34	650.49	0.00	0	0.00	169.22	0.00	0.00	0.00	1414.05
COOPER	0.00	80.45	0.00	0	0.00	0.00	0.00	0.00	0.00	80.45
CRAWFORD	0.00	416.58	0.00	0	0.00	0.00	0.00	0.00	0.00	416.58
DADE	0.00	177.14	616.62	2879	0.35	0.00	0.00	0.00	0.00	794.11
DALLAS	0.00	14.60	0.00	0	0.00	0.00	0.00	0.00	0.00	14.60
DAVIES	71.94	184.30	0.00	0	0.00	31.25	0.00	0.00	0.00	287.49
DUNKLIN	0.00	1560.28	5940.77	25992	0.00	0.00	279.34	0.50	0.00	7780.88
FRANKLIN	1.00	2375.87	0.00	0	0.00	41.54	558.58	0.00	0.00	2977.00
GASCONADE	0.00	272.93	0.00	0	0.00	0.00	0.00	0.00	0.00	290.94
GENTRY	0.00	121.85	0.00	0	0.20	0.00	0.00	0.00	0.00	122.05
GREENE	108.71	2608.91	1.46	5	0.00	634.56	678.37	0.00	139.14	4171.14
GRUNDY	0.00	0.00	239.00	800	0.00	0.00	0.00	0.00	0.00	239.00
HARRISON	0.00	9.88	0.00	0	0.00	0.00	0.00	0.00	0.00	9.88
HENRY	0.00	79.97	20.92	110	0.00	0.00	0.00	0.00	0.00	100.89
HICKORY	7.24	27.28	0.00	0	2.44	0.00	0.00	0.00	0.00	36.96
HOLT	125.08	63.41	60.62	234	0.65	0.00	0.00	326.92	0.00	576.88
HOWARD	63.14	33.06	0.00	0	0.50	0.00	0.00	0.00	0.00	96.72
HOWELL	109.57	1005.09	63.92	470	8.36	76.25	0.16	0.00	0.00	1263.34
IRON	6.70	83.25	0.00	0	0.00	98.19	0.00	0.00	2733.40	2921.54
JACKSON	5396.00	5429.65	0.00	0	0.00	613.92	42.90	0.00	231.04	11713.51
JASPER	428.97	711.43	856.10	3643	0.34	1003.86	613.35	0.00	1.72	3795.57
JEFFERSON	137.46	2499.32	2.99	0	0.00	559.65	0.00	0.00	0.00	3199.42
JOHNSON	491.30	949.52	0.00	0	0.00	56.62	0.00	0.00	0.00	1515.03
LACLEDE	0.00	1417.63	0.00	0	0.00	0.00	0.00	0.00	0.00	1417.63
LAFAYETTE	0.00	218.80	32.47	625	0.00	0.00	0.00	0.00	0.00	251.27
LAWRENCE	155.16	727.08	0.14	160	6.63	54.66	0.00	0.00	0.00	1047.37
LEWIS	0.00	166.55	0.00	0	0.00	17.73	0.00	0.00	0.00	184.27
LINCOLN	0.00	737.36	79.50	262	0.00	0.00	0.00	0.00	0.00	816.86
LINN	0.00	26.61	0.00	0	0.00	0.00	0.00	0.00	8.78	35.39
LIVINGSTON	0.00	744.25	0.00	0	0.00	0.00	22.36	0.00	0.00	777.67
MADISON	0.00	42.58	0.00	0	0.00	0.00	0.00	0.00	0.00	42.58
MARIES	3.00	51.05	0.00	0	352.00	43.73	0.00	0.00	0.00	449.78
MARION	0.00	191.89	51.60	400	0.00	514.00	0.00	0.00	0.00	757.49
MCDONALD	0.00	814.43	0.00	0	0.00	656.50	0.00	0.00	0.00	1470.92
MERCER	0.00	71.24	0.00	0	0.00	0.00	0.00	0.00	0.00	71.24
MILLER	21.90	310.86	0.00	0	0.00	0.00	0.00	0.00	0.00	332.76
MISSISSIPPI	136.27	358.95	6298.47	15394	5.00	1.00	0.00	0.00	0.00	6799.69
MONITEAU	108.87	625.57	0.00	0	1.42	13.97	0.00	0.00	0.00	749.82
MONTGOMERY	0.00	79.18	0.00	0	0.00	0.00	0.00	0.00	0.00	81.92
MORGAN	71.20	40.41	0.00	0	0.00	28.89	0.00	0.00	0.00	140.50
NEW MADRID	1.24	512.58	30710.72	80366	0.00	322.19	335.89	0.00	0.00	31882.62
NEWTON	0.00	759.40	0.00	0	6.00	100.30	0.00	0.00	0.00	865.70
NODAWAY	0.00	35.37	6.00	60	0.00	0.00	0.00	0.00	0.00	41.37
OREGON	30.35	148.43	0.00	0	0.42	5.90	0.00	0.00	0.00	188.27
OSAGE	0.00	180.09	0.00	0	0.00	0.00	96.51	0.00	0.00	276.60
OZARK	0.00	70.46	0.00	0	0.00	0.00	0.00	0.00	0.00	70.46

Table 10, continued next page



Table 10, continued

County	Domestic	Municipal	Irrigation	Acres	Recreation	Industrial	Electrical	Fish & Wildlife	Drainage	Totals*
PEMISCOT	0.00	1086.70	7802.00	25980	0.00	10.43	0.00	496.05	0.00	9395.18
PERRY	0.00	134.40	0.00	0	0.00	1.97	0.00	0.00	0.00	141.21
PETTIS	0.00	545.04	0.00	0	0.00	729.17	0.00	0.00	0.00	1274.21
PHELPS	0.94	1269.25	0.00	0	0.94	0.00	0.00	0.00	0.00	1271.12
PIKE	0.00	0.00	70.50	600	0.00	1.58	0.00	12.00	0.41	84.49
PLATTE	0.00	951.48	0.00	0	41.40	41.38	255.63	0.00	0.00	1289.89
POLK	0.00	590.64	123.10	280	0.00	0.00	0.00	0.00	0.00	713.74
PULASKI	75.14	858.43	0.15	0	4.54	10.33	0.00	0.00	0.00	948.59
RAY	0.00	865.17	0.00	0	0.00	0.00	0.00	0.00	0.00	865.17
REYNOLDS	91.97	8.24	0.00	0	3.14	7.79	0.11	0.00	7005.34	7116.58
RIPLEY	0.00	115.20	4430.13	5764	0.00	0.00	0.00	0.00	0.00	4545.33
SALINE	0.00	1524.03	0.00	0	0.00	0.00	0.00	0.00	0.00	1524.03
SCOTT	1.53	1784.19	6365.20	17774	2.99	45.31	2000.00	1.00	0.00	10200.21
SHANNON	0.00	141.11	0.00	0	0.00	0.00	0.00	0.00	0.00	141.11
ST. CHARLES	0.00	6954.86	144.87	720	3.96	529.51	0.00	0.12	0.00	7987.22
ST. CLAIR	0.00	79.98	0.00	0	0.00	0.00	0.00	0.00	0.00	79.98
ST. FRANCOIS	85.83	750.87	0.00	0	0.00	27.70	0.00	0.00	0.00	864.40
ST. LOUIS	0.00	1630.74	61.80	120	0.00	467.25	0.00	0.00	0.00	2159.89
STE. GENEVIEVE	90.31	229.15	0.00	0	2.53	85.25	0.00	0.00	0.00	462.98
STODDARD	418.82	421.08	25366.90	52671	2.00	296.46	0.00	0.00	0.00	26505.26
STONE	3.44	547.35	2.62	50	0.00	0.00	0.00	0.00	0.00	553.41
TANEY	108.67	1069.71	0.00	0	0.00	2.24	0.00	141.55	0.00	1322.16
TEXAS	0.11	550.11	30.98	50	0.00	235.82	0.00	0.00	0.00	817.01
VERNON	3.07	865.53	9.59	480	0.00	122.66	0.00	0.00	0.00	1000.84
WARREN	42.20	651.16	4.38	185	5.50	121.68	0.00	0.00	0.00	824.93
WASHINGTON	17.52	233.90	0.00	0	0.00	400.04	0.00	0.00	176.00	827.46
WAYNE	0.37	22.30	0.00	510	0.00	0.00	0.00	267.84	0.00	290.51
WEBSTER	0.00	438.23	20.00	60	0.00	0.00	0.00	0.00	0.00	458.23
WRIGHT	0.00	485.71	0.00	0	0.00	0.00	0.00	0.00	0.07	488.01
TOTALS*	10804.18	75751.77	151182.20	317951	455.17	15194.79	5813.22	1838.08	10643.39	272806.66

\*Figures may not add to totals because of independent rounding

## APPENDIX

### *Missouri Revised Statutes*

#### Chapter 256

#### Geology, Water Resources and Geodetic Survey

#### Section 256.400 to 256.430

**256.400. Definitions** — As used in sections 71.287, RSMo, and 256.400 to 256.430, unless the context clearly indicates otherwise, the following terms mean:

- (1) “Department”, the department of natural resources;
- (2) “Director”, the director of the department of natural resources;
- (3) “Division”, the division of geology and land survey of the department of natural resources;
- (4) “Major water user”, any person, firm, corporation or the state of Missouri, its agencies or corporations and any other political subdivision of this state, their agencies or corporations, with a water source and equipment necessary to withdraw or divert one hundred thousand gallons or more per day from any stream, river, lake, well, spring or other water source;
- (5) “State geologist”, the director of the division of geology and land survey of the department of natural resources;
- (6) “Water source”, any stream, river, lake, well, spring or other water source.

**256.405. Purpose to develop information for future water resource management —water usage law applicable to — exemptions** — The purpose of sections 71.287, RSMo, and 256.400 to 256.430 is to insure the development of information required for the analysis of certain future water resource management needs. It is intended to provide an important part of the information required in the technical assessment of current and future requirements for the regulation of water use or consumption, or both, on a regional or statewide basis, as may be required. The provisions of sections 71.287, RSMo, and 256.400 to 256.430 shall not apply to dredging operations or water withdrawn or diverted from farm or other ponds or impoundments of water which collect and hold surface water and which are located upon property owned or leased by the withdrawer or diverter so long as the common law rights of downstream owners are not abridged, but the provisions of sections 71.287, RSMo, and 256.400 to

256.430 shall apply to water withdrawn or diverted from wells or springs located on property owned by the withdrawer or diverter.

**256.410. Major water users withdrawing or diverting water required to file registration with division, content** — 1. No major water user shall withdraw or divert water from any water source without filing an official registration document with the division. The registration document shall set forth:

- (1) The name and mailing address of the applicant;
- (2) The name, if any, and location of the water source;
- (3) The type of water source (such as well, lake or stream);
- (4) The point in the water source from which it is proposed to withdraw or divert the water;
- (5) The name, location, and acreage of the lands or other application to which such water is to be diverted;
- (6) The location and description of the water well, canal, tunnel or pipes and other works or equipment through which the water is to be withdrawn or diverted;
- (7) The amount in gallons of water withdrawn or diverted on an average day of operation, and the number of days and the months during the preceding year, when water was diverted;
- (8) The total amount in gallons withdrawn or diverted during the preceding year, and the periods of time when such diversion is scheduled during the current year. The foregoing requirements of this subsection shall not apply to water being pumped from mines and quarries and such water user shall only be required to set forth the quantity pumped from the mine and quarry at each point where it is pumped to the point to discharge and only the name of the stream into which any of the discharge is permitted to flow.

2. Withdrawal or diversion of water by major users may continue during the first calendar year after September 28, 1983, or after the initial date of their operation, at which time a registration document must

be filed. The filing period shall extend from January first through March thirty-first. Withdrawal or diversion may continue during the filing period. Location data shall be given in terms of section, township and range.

**256.415. Nuisance, unregistered diversion of water by major water user—injunction—injunction dissolved, when** — Any unregistered diversion of water by a major water user is hereby declared to be a nuisance and the director may request the attorney general to file an action in the name of the state for an injunction to stop all water withdrawal or diversion from a water source; provided, however, that any person withdrawing or diverting from a water source may continue to withdraw or divert from that water source while such action is pending. The issuing court shall dissolve the injunction issued under this section when the person files a current registration with the division.

**256.420. Inspection by state geologist—court order if permission refused** — The state geologist or his authorized agent may enter upon the property of any major water user with permission. If permission is not granted, the department may request a court order for the purpose of inspecting any water source or di-

version project to determine water levels, quantity of water withdrawn or diverted and consumed.

**256.425. Division to compile information to determine water needs and usage of state—staff limitation** — The division shall compile all information contained in the registration document and shall analyze such information on a periodic basis to assist in the determination of the water usage and water needs of this state. Not more than three persons shall be employed to carry out the provisions of sections 71.287, RSMo, and 256.400 to 256.430.

**256.430. Department may accept gifts, grants—law not to be construed to limit common law water rights** — 1. The department may accept gifts, contributions, donations and grants, and use the same for any purpose within the scope of sections 71.287, RSMo, and 256.400 to 256.430; provided, however, that any federal or state revenue moneys which are provided for the carrying out of sections 71.287, RSMo, and 256.400 to 256.430 must be appropriated to the department by the general assembly of the state of Missouri in accordance with law.

2. Nothing in sections 71.287, RSMo, and 256.400 to 256.430 shall be construed to limit the common law water rights of any person.



Water Resources Report Number 72

**MAJOR WATER USE IN MISSOURI: 1996-2000**



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